



Transmission of material in this release is embargoed until
8:30 a.m. (ET) Wednesday, December 13, 2023

USDL 23-2565

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PRODUCER PRICE INDEXES – NOVEMBER 2023

The Producer Price Index for final demand was unchanged in November, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices decreased 0.4 percent in October and rose 0.4 percent in September. (See table A.) On an unadjusted basis, the index for final demand increased 0.9 percent for the 12 months ended in November.

In November, the indexes for both final demand goods and for final demand services were unchanged.

The index for final demand less foods, energy, and trade services edged up 0.1 percent in November, the sixth consecutive advance. For the 12 months ended in November, prices for final demand less foods, energy, and trade services rose 2.5 percent.

Chart 1. One-month percent changes in selected PPI final demand price indexes, seasonally adjusted

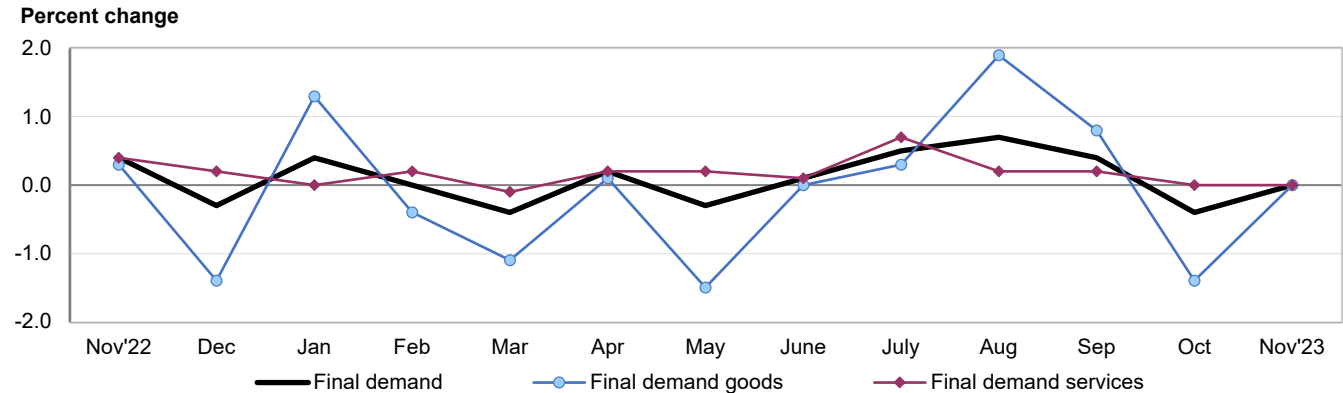
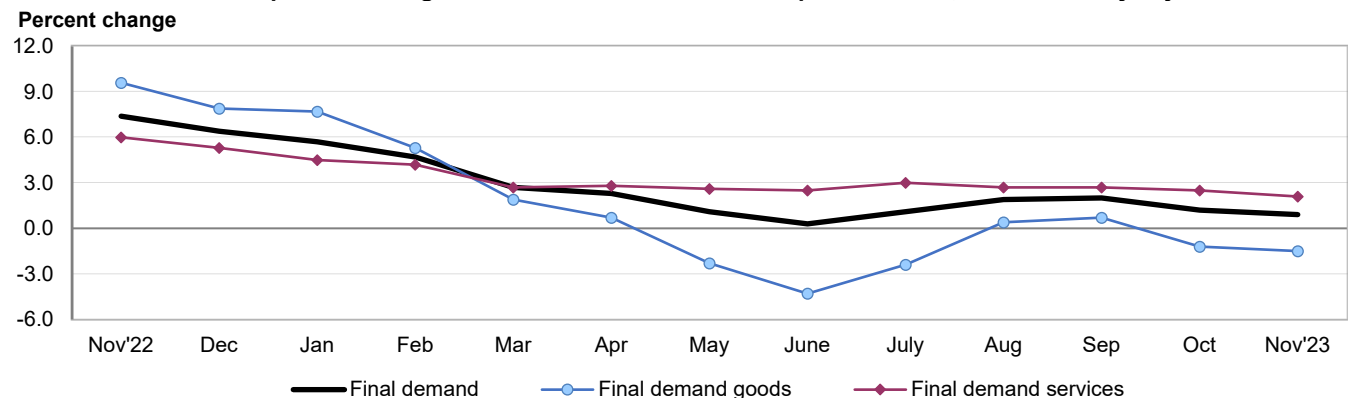


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted



Final Demand

Final demand goods: The index for final demand goods was unchanged in November after dropping 1.4 percent in October. In November, price increases of 0.6 percent for final demand foods and 0.2 percent for final demand goods less foods and energy offset a 1.2-percent decrease in the index for final demand energy.

Product detail: Within final demand goods in November, prices for chicken eggs jumped 58.8 percent. The indexes for fresh fruits and melons, utility natural gas, electric power, and carbon steel scrap also moved higher. In contrast, prices for gasoline fell 4.1 percent. The indexes for processed poultry, industrial chemicals, jet fuel, and liquefied petroleum gas also moved lower. (See table 2.)

Final demand services: The index for final demand services remained unchanged in November, the same as in October. In November, prices for final demand services less trade, transportation, and warehousing edged up 0.1 percent. Conversely, the indexes for final demand trade services and for final demand transportation and warehousing services declined, 0.2 percent and 0.5 percent, respectively. (Trade indexes measure changes in margins received by wholesalers and retailers.)

Product detail: Within the index for final demand services in November, prices for traveler accommodation services rose 4.0 percent. The indexes for deposit services (partial); health, beauty, and optical goods retailing; food and alcohol wholesaling; and apparel, footwear, and accessories retailing also advanced. In contrast, margins for automobile retailing (partial) declined 5.1 percent. The indexes for chemicals and allied products wholesaling, portfolio management, furniture retailing, and truck transportation of freight also fell.

Table A. Monthly and 12-month percent changes in selected final demand price indexes, seasonally adjusted

Month	Total final demand	Final demand less foods, energy, and trade	Final demand goods				Final demand services				Change in final demand from 12 months ago (unadj.)	Change in final demand less foods, energy, and trade from 12 mo. ago (unadj.)
			Total	Foods	Energy	Less foods and energy	Total	Trade	Transportation and warehousing	Other		
2022												
Nov....	0.4	0.4	0.3	3.3	-2.3	0.3	0.4	0.5	-0.4	0.5	7.4	4.9
Dec....	-0.3	0.2	-1.4	-0.9	-6.3	0.1	0.2	0.3	0.0	0.2	6.4	4.7
2023												
Jan. ...	0.4	0.5	1.3	-1.3	5.4	0.6	0.0	-0.8	-0.5	0.5	5.7	4.4
Feb. ...	0.0	0.3	-0.4	-2.3	-0.8	0.3	0.2	-0.2	-0.8	0.4	4.7	4.5
Mar. ...	-0.4	0.1	-1.1	0.2	-6.1	0.2	-0.1	-0.6	-0.7	0.2	2.7	3.7
Apr.	0.2	0.2	0.1	-0.4	0.7	0.1	0.2	0.4	-2.5	0.5	2.3	3.4
May. ...	-0.3	0.0	-1.5	-1.0	-6.9	0.1	0.2	0.8	-0.5	0.0	1.1	2.9
June...	0.1	0.3	0.0	-0.3	0.8	-0.2	0.1	-0.7	0.0	0.5	0.3	2.9
July ¹ ...	0.5	0.2	0.3	0.4	0.9	0.0	0.7	1.6	0.3	0.4	1.1	2.9
Aug. ¹ ..	0.7	0.2	1.9	-0.4	10.2	0.1	0.2	0.1	0.0	0.3	1.9	2.9
Sept. ¹ ..	0.4	0.3	0.8	0.6	3.0	0.2	0.2	-0.1	0.2	0.4	2.0	2.9
Oct. ¹ ...	-0.4	0.1	-1.4	-0.1	-6.7	0.0	0.0	-0.2	1.1	0.0	1.2	2.8
Nov....	0.0	0.1	0.0	0.6	-1.2	0.2	0.0	-0.2	-0.5	0.1	0.9	2.5

¹ Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for July 2023 through October 2023 have been revised to reflect the availability of late reports and corrections by respondents.

Intermediate Demand by Commodity Type

Within intermediate demand in November, the index for processed goods was unchanged, prices for unprocessed goods fell 1.4 percent, and the index for services rose 0.2 percent. (See tables B and C.)

Processed goods for intermediate demand: Prices for processed goods for intermediate demand were unchanged in November after moving down 1.0 percent in October. In November, a 1.0-percent increase in the index for processed energy goods offset price decreases of 0.2 percent for processed materials less foods and energy and 0.6 percent for processed foods and feeds. For the 12 months ended in November, the index for processed goods for intermediate demand declined 4.1 percent.

Product detail: Within the index for processed goods for intermediate demand in November, prices for electric power advanced 1.5 percent. The indexes for diesel fuel, natural gas to electric utilities, thermoplastic resins and materials, and soybean cake and meal also moved higher. Conversely, prices for industrial chemicals fell 3.0 percent. The indexes for gasoline, processed poultry, jet fuel, and softwood lumber (not edge worked) also decreased.

Unprocessed goods for intermediate demand: Prices for unprocessed goods for intermediate demand declined 1.4 percent in November after falling 1.8 percent in October. Leading the November decrease, the index for unprocessed energy materials dropped 3.2 percent. Prices for unprocessed foodstuffs and feedstuffs moved down 1.0 percent. In contrast, the index for unprocessed nonfood materials less energy rose 0.7 percent. For the 12 months ended in November, prices for unprocessed goods for intermediate demand declined 13.1 percent.

Product detail: A major factor in the November decrease in prices for unprocessed goods for intermediate demand was the index for crude petroleum, which dropped 9.5 percent. Prices for slaughter steers and heifers, corn, slaughter barrows and gilts, slaughter chickens, and raw cotton also declined. Conversely, the index for carbon steel scrap advanced 8.0 percent. Prices for natural gas and for hay, hayseeds, and oilseeds also increased.

Table B. Monthly and 12-month percent changes in selected intermediate demand price indexes for goods by commodity type, seasonally adjusted

Month	Processed goods for intermediate demand					Unprocessed goods for intermediate demand				
	Total	Foods and feeds	Energy goods	Less foods and energy	Total, change from 12 months ago (unadj.)	Total	Food-stuffs and feed-stuffs	Energy materials	Nonfood materials less energy	Total, change from 12 months ago (unadj.)
2022										
Nov.....	-0.5	0.8	-1.9	-0.2	7.6	-3.1	0.0	-6.7	-0.7	3.5
Dec.....	-2.5	-0.6	-9.8	-0.4	4.8	1.5	-0.2	5.2	-1.7	10.7
2023										
Jan.....	1.1	0.2	4.9	0.1	3.9	-4.7	-5.8	-7.0	2.1	2.8
Feb.....	-0.4	-2.1	-1.6	0.2	2.1	-4.9	-1.0	-10.9	0.3	-10.4
Mar.....	-1.0	-0.2	-3.9	-0.2	-1.0	-4.7	-0.7	-11.1	-0.9	-16.8
Apr.....	-0.5	-1.1	-2.9	0.2	-3.4	1.1	-1.5	3.7	1.8	-20.3
May.....	-1.6	-1.8	-7.0	-0.1	-7.2	-5.2	-4.6	-8.0	-2.1	-28.2
June.....	-0.5	-1.2	-0.5	-0.4	-9.4	-1.0	1.0	-2.8	-1.6	-32.1
July ¹	-0.3	1.2	-0.1	-0.5	-7.6	2.4	-0.9	10.1	-3.1	-24.1
Aug. ¹	2.1	0.8	11.8	-0.2	-4.4	2.2	0.1	5.8	0.1	-26.3
Sept. ¹	0.5	0.7	2.3	0.0	-3.8	3.3	2.3	6.8	-0.7	-21.6
Oct. ¹	-1.0	-0.3	-4.6	-0.1	-4.6	-1.8	-3.1	-1.5	-0.1	-14.7
Nov.....	0.0	-0.6	1.0	-0.2	-4.1	-1.4	-1.0	-3.2	0.7	-13.1

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Services for intermediate demand: The index for services for intermediate demand increased 0.2 percent in November, the third consecutive rise. The November advance can be attributed to prices for services less trade, transportation, and warehousing for intermediate demand, which moved up 0.4 percent. In contrast, the indexes for transportation and warehousing services for intermediate demand and for trade services for intermediate demand fell, 0.2 percent and 0.1 percent, respectively. For the 12 months ended in November, prices for services for intermediate demand increased 2.9 percent.

Product detail: Over 40 percent of the November rise in the index for services for intermediate demand can be traced to a 4.5-percent increase in prices for gross rents for retail properties. The indexes for deposit services (partial), television advertising time sales, food and alcohol wholesaling, gross rents for office buildings, and machinery and equipment parts and supplies wholesaling also advanced. Conversely, prices for truck transportation of freight decreased 0.6 percent. The indexes for chemicals and allied products wholesaling and for business loans (partial) also moved lower.

Table C. Monthly and 12-month percent changes in selected intermediate demand price indexes for services by commodity type, seasonally adjusted

Month	Services for intermediate demand				Total, change from 12 months ago (unadj.)
	Total	Trade	Transportation and warehousing	Other	
2022					
Nov.....	0.8	0.9	-1.3	1.2	6.9
Dec.....	0.0	-1.3	0.0	0.4	6.0
2023					
Jan.....	1.0	0.8	0.5	1.1	6.3
Feb.....	0.3	-0.7	0.0	0.7	6.2
Mar.....	-0.3	0.9	-1.0	-0.5	4.5
Apr.....	0.7	0.8	-1.1	1.0	4.4
May.....	0.2	-0.3	-0.3	0.4	3.9
June.....	0.1	-0.8	-0.1	0.4	4.4
July ¹	0.6	2.1	0.9	0.1	4.7
Aug. ¹	-0.1	-0.5	-0.6	0.1	4.2
Sept. ¹	0.2	-0.6	0.5	0.3	3.9
Oct. ¹	0.1	2.1	0.7	-0.5	3.5
Nov.....	0.2	-0.1	-0.2	0.4	2.9

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: Prices for stage 4 intermediate demand advanced 0.1 percent in November after decreasing 0.3 percent in October. In November, the index for total services inputs to stage 4 intermediate demand rose 0.2 percent, and prices for total goods inputs edged up 0.1 percent. (See table D.) Increases in the indexes for gross rents for retail properties, electric power, gross rents for office buildings, fresh fruits and melons, and food and alcohol wholesaling outweighed decreases in the indexes for chemicals and allied products wholesaling, portfolio management, and processed poultry. For the 12 months ended in November, prices for stage 4 intermediate demand advanced 1.5 percent.

Stage 3 intermediate demand: The index for stage 3 intermediate demand declined 0.1 percent in November after moving down 0.5 percent in October. In November, prices for total goods inputs to stage 3 intermediate demand fell 0.6 percent. In contrast, the index for total services inputs rose 0.3 percent. Decreases in the indexes for slaughter steers and heifers, jet fuel, corn, slaughter barrows and gilts, and chemicals and allied products wholesaling outweighed advances in prices for television advertising time sales, diesel fuel, ungraded chicken eggs, and deposit services (partial). For the 12 months ended in November, prices for stage 3 intermediate demand fell 3.7 percent.

Stage 2 intermediate demand: The index for stage 2 intermediate demand declined 0.5 percent in November, the largest decrease since moving down 1.0 percent in June. In November, prices for total goods inputs to stage 2 intermediate demand fell 1.4 percent. Conversely, the index for total services inputs advanced 0.3 percent. Decreases in the indexes for crude petroleum, industrial chemicals, liquified petroleum gas, business loans (partial), automotive fuels and lubricants retailing, and chemicals and allied products wholesaling outweighed increases in prices for deposit services (partial), natural gas, and oilseeds. For the 12 months ended in November, prices for stage 2 intermediate demand moved down 2.4 percent.

Stage 1 intermediate demand: The index for stage 1 intermediate demand advanced 0.1 percent in November following a 0.4-percent decrease in October. In November, prices for total services inputs to stage 1 intermediate demand rose 0.2 percent, and the index for total goods inputs moved up 0.1 percent. Price increases for gross rents for retail properties, diesel fuel, traveler accommodation services, electric power, and carbon steel scrap outweighed decreases in the indexes for industrial chemicals, chemicals and allied products wholesaling, corn, and gasoline. For the 12 months ended in November, prices for stage 1 intermediate demand declined 1.5 percent.

Table D. Monthly percent changes in selected intermediate demand price indexes by production flow, seasonally adjusted

Month	Stage 4 intermediate demand			Stage 3 intermediate demand			Stage 2 intermediate demand			Stage 1 intermediate demand		
	Total	Goods inputs	Services inputs	Total	Goods inputs	Services inputs	Total	Goods inputs	Services inputs	Total	Goods inputs	Services inputs
2022												
Nov.....	0.4	-0.2	1.0	-0.4	-1.1	0.3	-1.0	-2.9	0.8	0.1	-0.6	0.9
Dec.....	-0.4	-0.7	0.0	-2.0	-3.8	0.0	1.0	1.5	0.6	-1.8	-3.0	-0.4
2023												
Jan.....	1.0	0.8	1.2	0.2	-0.5	0.9	-0.9	-2.9	0.9	0.7	0.8	0.7
Feb.....	0.0	-0.1	0.2	-0.2	-0.6	0.1	-1.4	-4.6	1.2	-0.3	-0.4	-0.2
Mar.....	-0.3	-0.5	-0.1	-0.7	-1.1	-0.4	-2.5	-4.9	-0.7	-0.4	-1.0	0.2
Apr.....	0.3	-0.2	0.7	-0.2	-1.2	0.7	0.9	1.2	0.7	-0.1	-0.7	0.5
May.....	-0.2	-0.6	0.2	-1.4	-3.0	-0.1	-1.4	-4.1	0.6	-1.0	-1.8	-0.2
June.....	0.0	0.0	0.1	-0.1	-0.1	-0.2	-1.0	-2.2	-0.2	-0.1	-0.6	0.3
July ¹	0.3	-0.1	0.7	-0.4	-1.4	0.5	1.9	4.0	0.4	0.1	-0.7	0.8
Aug. ¹	0.5	0.7	0.4	1.1	3.3	-0.6	0.6	2.2	-0.5	1.4	2.6	0.4
Sept. ¹	0.2	0.3	0.2	0.6	1.2	0.0	1.1	3.1	-0.4	0.3	0.3	0.3
Oct. ¹	-0.3	-0.5	-0.1	-0.5	-1.9	0.6	-0.2	-1.0	0.5	-0.4	-0.8	0.1
Nov.....	0.1	0.1	0.2	-0.1	-0.6	0.3	-0.5	-1.4	0.3	0.1	0.1	0.2

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The Producer Price Index for December 2023 is scheduled to be released on Friday, January 12, 2024, at 8:30 a.m. (ET).

Recalculated Seasonal Adjustment Factors and Relative Importance Figures to be Available on February 14, 2024

Each year with the release of PPI data for January, seasonal adjustment factors and relative importance figures are recalculated to reflect price movements from the just-completed calendar year. The following information relating to the seasonal-factor update will be available on February 14, 2024 (2 workdays prior to the release of PPI data for January 2024 on February 16, 2024):

- Direct seasonal factors for PPI commodity indexes for the year 2024,
- Recalculated seasonal factors for the last 5 years (2019-2023) for PPI commodity indexes,
- Recalculated seasonal factors for the last 5 years (2019-2023) for PPI Final Demand-Intermediate Demand indexes,
- Recalculated seasonal index data for the last 5 years (2019-2023) for Final Demand-Intermediate Demand and commodity indexes. This revision to seasonally adjusted indexes for the previous 5 years will be posted to the PPI database on the BLS website.

In addition, the following relative importance figure tables, which include values for December 2023, will be available on February 14, 2024:

- Final demand by individual commodities
- Final demand by component series
- Individual commodities of intermediate demand by commodity type
- Component series of intermediate demand by commodity type
- Individual commodities of intermediate demand by production flow
- Component series of intermediate demand by production flow
- Commodities, all levels
- Wherever-provided services and construction

This information will be available on the PPI website at www.bls.gov/ppi or by contacting the PPI Section of Index Analysis and Public Information at ppi-info@bls.gov or (202) 691-7705.

Technical Note

Brief Explanation of Producer Price Indexes

The Producer Price Index (PPI) of the Bureau of Labor Statistics (BLS) is a family of indexes that measures the average change over time in prices received (price changes) by producers for domestically produced goods, services, and construction. PPIs measure price change from the perspective of the seller. This contrasts with other measures, such as the Consumer Price Index (CPI). CPIs measure price change from the purchaser's perspective.

More than 10,000 PPIs for individual products and groups of products are released each month. PPIs are available for the products of virtually every industry in the mining and manufacturing sectors. Over time, new PPIs have been introduced for products of industries in the services and construction sectors of the U.S. economy. As of January 2023, the PPI covered 69 percent of services as measured by 2017 Census revenue, and 17 percent of construction.

More than 64,000 price quotations per month are organized into three sets of PPIs: (1) Final demand-Intermediate demand (FD-ID) indexes, (2) commodity indexes, and (3) indexes for the net output of industries and their products. The FD-ID structure organizes products by class of buyer and degree of fabrication as well as by stage of production. The commodity structure organizes products by similarity of end use or product type. The entire output of various industries is sampled to derive price indexes for the net output of industries and their products.

Final Demand–Intermediate Demand Indexes

The PPI FD-ID structure measures price change for goods, services, and construction sold to final demand and to intermediate demand. The FD-ID system replaced the PPI stage-of-processing (SOP) system as PPI's primary aggregation model with the release of data for January 2014. The FD-ID model expands coverage beyond that of the SOP system through the addition of services, construction, exports, and government purchases.

Compared with finished goods under the SOP system, the PPI for final demand goods includes nearly a 50 percent expansion of coverage. This increase can be traced to the addition of government purchases and exports. For overall final demand, expansion to include final demand services represents an even larger increase in coverage. In December 2022, final demand goods were about 30.7 percent of overall final demand, final demand services were roughly 66.6 percent, and final demand construction was about 2.7 percent of final demand. Within intermediate demand, coverage of services for intermediate demand resulted in about a 45 percent increase in coverage of the intermediate demand portion of the economy.

FD-ID indexes are constructed from commodity-based producer output price indexes. Commodities are allocated to aggregate indexes primarily based on the type of buyer. The main source of data used to determine the type of buyer is the "Use of commodities by industries, before redefinition," table

from the Benchmark Input-Output Accounts of the U.S. In many cases, the same commodity is purchased by different types of buyers. As a result, commodities are often included in several FD-ID indexes. For example, regular gasoline is purchased for personal consumption, export, government use, and business use. The PPI program publishes only one commodity index for regular gasoline (wpu057104), reflecting sales to all types of buyers, and this index is used in all aggregations regardless of whether the gasoline is sold for personal consumption, as an export, to government, or to businesses. Proportions based on BEA "Use of Commodities" data are used to allocate the correct portion of the total weight of gasoline to each use category. In cases when buyer type is an important price determining characteristic, indexes are created based on specific buyer type. For example, within the PPI category for loan services, separate indexes for consumer loans and business loans were constructed. For more information relating to the FD-ID structure, see "A new, experimental system of indexes from the PPI program" in the February 2011 *Monthly Labor Review*.

Final Demand: The final demand portion of the FD-ID structure measures price change for commodities sold for personal consumption, capital investment, government, and export. The system is composed of six main price indexes: final demand goods; final demand trade services; final demand transportation and warehousing services; final demand services less trade, transportation, and warehousing; final demand construction; and overall final demand.

The final demand goods index measures price change for both unprocessed and processed goods sold to final demand. Fresh fruits sold to consumers and computers sold for capital investment are examples of transactions included in the final demand goods price index. The final demand trade services index measures price change for the retailing and wholesaling of merchandise sold to final demand, generally without transformation. (Trade indexes measure changes in margins received by wholesalers and retailers.) The final demand transportation and warehousing services index tracks price change for transportation of passengers, as well as, transportation of cargo sold to final demand, and also includes prices for warehousing and storage of goods sold to final demand. The final demand services less trade, transportation, and warehousing index measures price change for all services other than trade and transportation sold to final demand. Publishing, banking, lodging, and health care are examples of these services. The final demand construction index tracks price change for new construction, as well as maintenance and repair construction sold to final demand. Construction of office buildings is an example of a commodity that would be included in the final demand construction index. Lastly, the overall final demand index tracks price change for all types of commodities sold to final demand by combining the five final demand component indexes described above.

Intermediate Demand: The intermediate demand portion of the FD-ID system tracks price change for goods, services, and construction products sold to businesses as inputs to

production, excluding capital investment. The system includes two parallel treatments of intermediate demand. The first treatment organizes intermediate demand commodities by type. The second organizes intermediate demand commodities into production stages, with the explicit goal of developing a forward-flow model of production and price change.

The intermediate demand by commodity type portion of the system organizes commodities by similarity of product. The system is composed of six main price indexes: unprocessed goods for intermediate demand; processed goods for intermediate demand; intermediate demand trade services; intermediate demand transportation and warehousing services; intermediate demand services less trade, transportation, and warehousing; and intermediate demand construction.

The unprocessed goods for intermediate demand price index measures price change for goods sold to businesses as inputs to production that have undergone no fabrication. Crude petroleum sold to refineries is an example of an unprocessed good sold to intermediate demand. The processed goods for intermediate demand index tracks price change for fabricated goods sold as business inputs. Examples include car parts sold to car manufacturers and gasoline sold to trucking companies. The index for trade services for intermediate demand measures price change for the services of retailing and wholesaling goods purchased by businesses as inputs to production. The intermediate demand transportation and warehousing services index measures price change for business travel, as well as, transportation and warehousing of cargo sold to intermediate demand. The intermediate demand services less trade, transportation, and warehousing index measures price change for services other than trade, transportation, and warehousing sold as inputs to production. Legal and accounting services purchased by businesses are examples of intermediate demand services excluding trade, transportation, and warehousing. Finally, the construction for intermediate demand index measures price change for construction purchased by firms as inputs to production. The index for construction for intermediate demand tracks price change for maintenance and repair construction purchased by firms.

The production flow treatment of intermediate demand is a stage-based system of price indexes. These indexes can be used to study price transmission across stages of production and final demand. This system is constructed in a manner that maximizes forward flow of production between stages, while minimizing back-flow of production. The production flow treatment contains four main indexes: intermediate demand stage 1, intermediate demand stage 2, intermediate demand stage 3, and intermediate demand stage 4.

Indexes for the four stages were developed by first assigning each industry in the economy to one of four stages of production, where industries assigned to the fourth stage primarily produce output consumed as final demand, industries in the third stage primarily produce output consumed by stage 4 industries, industries assigned to the second stage primarily produce output consumed by stage 3 industries, and industries assigned to the first stage produce output primarily consumed by stage 2 industries. The four indexes then track prices for the net inputs consumed by industries in each of the four stages of production. The stage 4

intermediate demand index, for example, tracks price change for inputs consumed, but not produced, by industries included in the fourth stage of production. Hence, the index tracks price change in inputs to industries that primarily produce final demand commodities (stage 4 producers primarily produce commodities sold to final demand).

Examples of heavily weighted goods-producing industries in stage 4 include the manufacture of light trucks and utility vehicles, automobiles, and pharmaceuticals. Retail trade, food service and drinking places, and hospitals are examples of heavily weighted service industries included in stage 4. Stage 4 also includes all new construction industries. Examples of goods consumed by stage 4 industries include motor vehicle parts, commercial electric power, plastic construction products, biological products, and beef and veal. Engineering services, machinery and equipment wholesaling, long distance motor carrying, and legal services constitute examples of services consumed by stage 4 industries.

Examples of highly weighted goods-producing industries included in stage 3 are motor vehicle parts manufacturing, animal (except poultry) slaughtering and processing, and semiconductor manufacturing. Services industries classified in stage 3 include wholesale trade; insurance carriers; architecture, engineering, and related services; and hotels and motels. Examples of goods consumed by stage 3 industries include slaughter steers and heifers, industrial electric power, and hot rolled steel bars, plates, and structural shapes. Services commonly consumed by stage 3 industries include commissions from sales of property and casualty insurance, business loans, temporary help services, and administrative and general management consulting services.

Petroleum refineries; electricity generation, transmission, and distribution; natural gas distribution; cattle ranching and farming; and plastic materials and resin manufacturing are among the goods-based industries assigned to stage 2. Services industries that are heavily weighted in stage 2 include management of companies and enterprises; non-depository credit intermediation; insurance agencies and brokerages; and services to buildings and dwellings. Goods commonly purchased by stage 2 industries include crude oil, natural gas, formula feeds, and primary basic organic chemicals. Services that are heavily weighted in the intermediate demand stage 2 index are legal services, business loans, and cellular phone and other wireless telecommunication.

Goods producing industries in stage 1 include oil and gas extraction, paper mills, and grain farming. Real estate, legal services, and advertising services are examples of highly weighted services industries included in stage 1. Examples of goods consumed by stage 1 industries are commercial and industrial electric power and gasoline. Services commonly consumed by stage 1 industries include solid waste collection, chemicals and allied products wholesaling, and guestroom or unit rental. It should be noted that all inputs purchased by stage 1 industries are by definition produced either within stage 1 or by latter stages of processing, leaving stage 1 less useful for price transmission analysis. For additional information on industry stage assignments, see www.bls.gov/ppi/fd-id/ppi-intermediate-demand-by-production-flow-industry-stage-assignments.htm.

Comparing the PPI with CPI

Although some data users utilize the PPI as a potential indicator of the Consumer Price Index (CPI), there are many reasons why the PPI and the CPI may diverge. The scope of the personal consumption portion of the PPI includes all marketable output sold by domestic producers for households. The scope of the CPI includes goods and services provided by business or government, where explicit user charges are paid by consumers. For example, the most heavily weighted item in the CPI, owners' equivalent rent, is excluded from the PPI. The scope of the CPI includes imports. The PPI excludes imports. The CPI only includes components of personal consumption directly paid for by the consumers, while the PPI includes components of personal consumption that may not be paid for by consumers. For example, the PPI includes medical services paid for by third parties. In contrast to CPI, PPI does not completely cover services. PPIs exclude taxes, since they do not represent producer revenue. Conversely, sales and other taxes paid by consumers are part of household expenditure and are included in the CPI. Additional technical differences between PPI and CPI also exist. For more information see "Comparing new final demand producer price indexes with other Government price indexes," *Monthly Labor Review*, January 2014, at www.bls.gov/opub/mlr/.

Commodity Indexes

The commodity classification of the PPI organizes goods, services, and construction by similarity of product or end use, disregarding industry of origin. With the release of data for July 2009, PPI expanded its commodity structure to include indexes for services and construction products. Prior to this date, the PPI commodity structure only included products from goods producing sectors. Table 9 of the *PPI Detailed Report* includes data for commodity indexes, organized in a hierarchal structure, including major groupings, subgroups, product classes, sub-product classes, and individual items.

Industry Net-Output Price Indexes

PPIs for the net output of industries and their products are grouped according to the North American Industry Classification System (NAICS). Prior to the release of January 2004, industry-based PPIs were published according to the Standard Industrial Classification (SIC) system. Industry price indexes are compatible with other economic time series organized by industry, such as data on employment, wages, and productivity. Table 11 of the *PPI Detailed Report* includes data for NAICS industries and industry groups (3-, 4-, 5-, and 6-digit codes), Census product classes (7- and 8-digit codes), products (9-digit codes), more detailed sub-products (11-digit codes), and, for some industries, indexes for other sources of revenue.

Indexes may represent one of three kinds of product categories. Every industry has primary product indexes that show changes in prices received by establishments classified in the industry for products made primarily, but not necessarily exclusively, by that industry. The industry classification of an establishment is determined by which products make up a plurality of its total shipment value. In

addition, most industries have secondary product indexes that show changes in prices received by establishments for products chiefly made in some other industry. Some industries have miscellaneous receipts indexes that track price changes for other sources of revenue received by establishments within the industry that are not derived from sales of their products; for example, resales of purchased materials, or revenues from parking lots owned by a manufacturing plant.

Data Collection

PPIs are constructed using selling prices reported by establishments of all sizes, selected by probability sampling, with the probability of selection proportionate to size. Individual items and transaction terms also are chosen by probability proportionate to size. BLS strongly encourages cooperating companies to supply actual transaction prices at the time of shipment to minimize the use of list prices. Prices submitted by survey respondents are effective on the Tuesday of the week containing the 13th day of the month. The survey is conducted online via the BLS Internet Data Collection Facility (IDCF). Data provided by survey respondents are supplemented with data from other sources for some areas.

Price data are provided by survey respondents on a voluntary and confidential basis; only sworn BLS employees are allowed access to individual company price reports. BLS publishes price indexes, not actual prices. All PPIs are subject to monthly revisions up to 4 months after original publication to reflect the availability of late reports and corrections by respondents.

BLS periodically updates the PPI sample of survey respondents to better reflect current conditions when the structure, membership, technology, or product mix of an industry shifts significantly and to spread reporting burden among smaller firms. Information on these resampling efforts are noted in the *PPI News Release* and *PPI Detailed Report* in the months they occur.

As part of an ongoing effort to expand coverage to sectors of the economy other than mining and manufacturing, an increasing number of service and construction sector industries have been introduced into the PPI. The following list of industries introduced since the mid-1990s includes the month and year in which an article describing the industry's content appeared in the *PPI Detailed Report*.

Service and construction sector industries introduced into the Producer Price Index, by SIC or NAICS code at their date of introduction and the *PPI Detailed Report* issue that announces their introduction

Title	Code	<i>PPI Detailed Report</i> Issue
	SIC	
Wireless telecommunications	4812	July 1999
Telephone communications, except radio telephone	4813	July 1995
Television broadcasting	4833	July 2002
Grocery stores	5411	July 2000
Meat and fish (seafood) markets	5421	July 2000
Fruit and vegetable markets	5431	July 2000

Title	Code	PPI Detailed Report Issue
Candy, nut, and confectionery stores	5441	July 2000
SIC		
Retail bakeries	5461	July 2000
Miscellaneous food stores	5499	July 2000
New car dealers	5511	July 2000
Gasoline service stations	5541	January 2002
Boat dealers	5551	January 2002
Recreational vehicle dealers	5561	January 2002
Miscellaneous retail	59	January 2001
Security brokers, dealers, and investment bankers	6211	January 2001
Investment advice	6282	January 2003
Life insurance carriers	6311	January 1999
Property and casualty insurance	6331	July 1998
Insurance agencies and brokerages	6412	January 2003
Operators and lessors of nonresidential buildings	6512	January 1996
Real estate agents and managers	6531	January 1996
Prepackaged software	7372	January 1998
Data processing services	7374	January 2002
Home health care services	8082	January 1997
Legal services	8111	January 1997
Engineering design, analysis, and consulting services	8711	January 1997
Architectural design, analysis, and consulting services	8712	January 1997
Premiums for property and casualty insurance	9331	July 1998
NAICS		
New Industrial building construction	236211	January 2008
New warehouse building construction	236221	July 2005
New school construction	236222	July 2006
New office construction	236223	January 2007
New health care building construction	236224	January 2013
Concrete contractors, nonresidential building work	23811X	July 2008
Roofing contractors, nonresidential building work	23816X	July 2008
Electrical contractors, nonresidential building work	23821X	July 2008
Plumbing / HVAC contractors, nonresidential building work	23822X	July 2008
Merchant wholesalers, durable goods	423	July 2005
Merchant wholesalers, nondurable goods	424	July 2005

Electronics and appliance stores	443	January 2004
Building material and garden equipment and supplies dealers	444	January 2004
Sporting goods, hobby, book, and music stores	451	January 2004
General merchandise stores	452	January 2004
Miscellaneous store retailers	453	January 2004
Pipeline transportation of natural gas	486210	June 2022
Internet service providers	518111	July 2005
Internet publishing and web search portals	519130	January 2010
Commercial banking	522110	January 2005
Savings institutions	522120	January 2005
Direct health and medical insurance carriers	524114	July 2004

Title	Code	PPI Detailed Report Issue
NAICS		
Construction, mining, and forestry machinery and equipment rental and leasing	532412	January 2005
Management consulting services	541610	January 2007
Security guards and patrol services	561612	July 2005
Offices of dentists	621210	January 2011
Blood and organ banks	621991	January 2007
Amusement and theme parks	713110	July 2006
Golf courses and country clubs	713910	July 2006
Fitness and recreational sports centers	713940	July 2005
Commercial machinery repair and maintenance	811310	July 2007

Weights

Weights for most commodity groupings of the PPI, as well as, weights for commodity-based aggregate indexes calculated from commodity groupings, such as FD-ID indexes, currently reflect 2017 values of shipments as reported in the *Census of Manufactures* and other sources. From January 2018 to December 2022, PPI weights were derived from 2012 shipment values. Industry indexes now are calculated under the 2022 NAICS structure utilizing 2017 value of shipment weights and 2012 net output ratios. The periodic update of the value weights used to calculate the PPI is done to more accurately reflect changes in production and marketing patterns in the economy.

Net output values of shipments are used as weights for industry indexes. Net output values refer to the value of shipments from establishments within the industry to buyers outside the industry. However, weights for commodity indexes are based on gross shipment values, including values of shipments between establishments within the same industry. As a result, broad commodity grouping indexes, such as the PPI for All Commodities (which is composed of major commodity groupings 01 through 15), are affected by the

multiple counting of price change at successive stages of processing, which can lead to exaggerated or misleading signals about inflation. The intermediate demand by commodity type FD-ID indexes partially correct for this defect, but industry indexes, final demand FD-ID indexes, and intermediate demand by production flow FD-ID indexes consistently correct for this at all levels of aggregation. Therefore, industry and FD-ID indexes are more appropriate than broad commodity groupings for analysis of general price trends.

Seasonally Adjusted and Unadjusted Data

Because price data are used for different purposes by different groups, BLS publishes seasonally adjusted and unadjusted changes each month. Seasonally adjusted data are preferred for analyzing general price trends in the economy because these data eliminate the effect of changes that normally occur at about the same time, and in about the same magnitude, every year—such as price movements resulting from normal weather patterns, regular production and marketing cycles, model changeovers, seasonal discounts, and holidays. For these reasons, seasonally adjusted data more clearly reveal underlying trends. Unadjusted data are of primary interest to users who need information that can be related to actual dollar values of transactions. Individuals requiring this information include marketing specialists, purchasing agents, budget and cost analysts, contract specialists, and commodity traders. It is the unadjusted data that are generally cited when escalating long-term contracts such as purchasing agreements or real estate leases. For more information, see *Price Adjustment Guide for Contracting Parties*, on the Web at: www.bls.gov/ppi/publications/price-adjustment-guide-for-contracting-parties.htm.

Seasonal adjustment is accomplished using X-13 ARIMA, a software package published by the U.S. Census Bureau. Each year, the seasonal status of most commodity indexes is reevaluated to reflect more recent price behavior. Industry net output indexes are not seasonally adjusted. For time series that exhibit seasonal pricing patterns, new seasonal factors are estimated and applied to the unadjusted data from the prior 5 years. Updated seasonally adjusted indexes replace the most recent 5 years of seasonal data.

Seasonal factors may be applied to series using either a direct or an aggregative method. Generally, commodity indexes are seasonally adjusted using direct seasonal adjustment, which produces a more complete elimination of seasonal movements than does the aggregative method. However, the direct seasonal adjustment process may not yield figures that possess additive consistency. Thus, a seasonally adjusted index for a broad category that is directly adjusted may not be logically consistent with all seasonally adjusted indexes for its components. Seasonal movements for FD-ID indexes are derived indirectly through an aggregative method that combines movements of a wide variety of subproduct class (six-digit) series.

Seasonally adjusted indexes can become problematic when previously stable and predictable price patterns abruptly change. If the new pattern persists, the seasonal adjustment method will eventually reflect it; if the pattern keeps shifting, however, seasonally adjusted data will become chronically troublesome. This problem occurs relatively infrequently for farm and food-related products, but has more often affected manufactured products such as automobiles and steel.

Since January 1988, the PPI has used Intervention Analysis Seasonal Adjustment methods to enhance the calculation of seasonal factors. With this technique, outlier values that may distort the seasonal pattern are removed from the data prior to applying the standard seasonal factor estimation procedure. For example, a possible economic

Price Index Reference Base

Effective with publication of January 1988 data, many important PPI series (including most commodity groups and individual items) were placed on a new reference base, 1982 = 100. From 1971 through 1987, the standard reference base for most PPI series was 1967 = 100. Except for rounding differences, the shift to the new reference base did not alter any previously published percent changes for affected PPI series. (See “Calculating Index Changes,” below.) The 1982 reference base is not used for commodity indexes with a base later than December 1981 or for industry net output indexes and their products. The FD-ID indexes typically have a reference base of November 2009 = 100.

For further information on the underlying concepts and methodology of the Producer Price Index, see chapter 14, “Producer Prices,” in the *BLS Handbook of Methods*. This chapter can be downloaded from the BLS Web site at www.bls.gov/opub/hom/homch14.htm.

Calculating Index Changes

Each PPI measures price changes from a reference period that equals 100.0. An increase of 5.5 percent from the reference period in the Final Demand Goods Price Index, for example, is shown as 105.5. This change also can be expressed in dollars, as follows: prices received by domestic producers of a sample of final demand goods have risen from \$100 in November 2009 to \$105.50. Likewise, a current index of 90.0 would indicate that prices received by producers of final demand goods are 10 percent lower than they were in November 2009.

Movements of price indexes from one month to another are usually expressed as percent changes, rather than as changes in index points. Index point changes are affected by the level of the index in relation to its base period, whereas percent changes are not. The following example shows the computation of index point and percent changes.

Index point change

Final Demand Goods Price Index	107.5
Less previous index	104.0
Equals index point change	3.5

Index percent change

Index point change	3.5
Divided by the previous index	104.0
Equals	0.034
Result multiplied by 100	0.034 x 100

cause for large price movements for petroleum-based products might have been the COVID-19 pandemic. In this case, intervention techniques allowed for better estimates of seasonally adjusted data. On the whole, very few series have required intervention. Out of over 400 seasonally adjusted commodity series, 69 were subject to intervention in 2023.

For more information relating to seasonal adjustment methods, see “PPI and CPI Seasonal Adjustment: an Update” in the July 2010 *Monthly Labor Review*, and “PPI and CPI Seasonal Adjustment During the COVID-19 Pandemic” in the May 2022 *Monthly Labor Review*.

Producer Price Index Data on the Internet

In 1995, the BLS began posting PPI series, news releases, and technical information to the internet. There were more than 13 million instances of PPI data being downloaded from the BLS website during 2022.

Retrieving PPI data from the PPI Web site

PPI data can be obtained online (www.bls.gov/ppi). On this page, under the tab labeled “Featured PPI databases” links provide the following methods of data retrieval:

- **Top Picks** is a form-based application for both Industry Data and Commodity Data that allows the user to quickly obtain PPI time series data by selecting the high-level aggregate and other commonly requested time series, including the All Commodities Index and the FD-ID indexes (for example, Final Demand). Within each list, any one—or all—of the time series shown can be selected. A user can modify the date range and output options after executing the query, using the reformat button above the data output table.
- **One-Screen Data Search and Multi-Screen Data Search** are form-based query applications for both Industry Data and Commodity Data designed for users unfamiliar with the PPI coding structure. These applications guide a user through the PPI classification by listing index titles and do not require knowledge of commodity or industry codes. Data retrieved are based on a query formulated by selecting data characteristics from lists provided. Two options are available to create customized tables, depending on a user’s browser capability. The one-screen option is a JavaScript application that uses a single screen to guide a user through the available time series data. The second option is a multiple-screen, non-Java-based application. Both methods allow a user to browse the PPI coding structure and select multiple series. Users can modify the date range and output options after executing the query using the reformat button above the data output table.
- **Series Report** is a form-based application that allows users to input multiple, formatted PPI time series identifiers (commodity or industry codes) as inputs in extracting data according to a specified set of date ranges and output options. This application provides the most efficient path for users who are familiar with the format of

PPI time series identifiers. There are five alphabetic prefixes used to create unique PPI time series identifiers: WP, WD, PC, PD, and ND. Each provides the user access to a different PPI database. Adding either a “u” (not seasonally adjusted) or an “s” (seasonally adjusted) to the end of these prefixes further specifies the type of data needed.

EXAMPLES

For commodity and FD-ID indexes, series identifiers combine a “wpu” prefix (not seasonally adjusted) or a “wps” prefix (seasonally adjusted) with a commodity code.

<u>Commodity code</u>	<u>Provides data for:</u>
wps141101	Passenger cars, seasonally adjusted
wpu141101	Passenger cars, not seasonally adjusted
wpufd4	Final demand, not seasonally adjusted
wpsid63	Services for intermediate demand, seasonally adjusted

For discontinued commodity indexes, series identifiers combine a “wdu” prefix (not seasonally adjusted) or a “wds” prefix (seasonally adjusted) with a commodity code.

<u>Commodity code</u>	<u>Provides data for:</u>
wds019	Other farm products, seasonally adjusted
wdu0635	Preparations, ethical (prescription), not seasonally adjusted
wdusi138011	Stainless steel mill products, not seasonally adjusted

Current price indexes grouped by industry according to NAICS have series identifiers that begin with the prefix “pcu.” After the prefix, there are 12 digits (the 6-digit industry code is listed twice) followed by up to 7 alphanumeric characters identifying product detail. Dashes are used as placeholders for higher-level industry group codes.

<u>Industry-product code, current NAICS series</u>	<u>Provides data for:</u>
pcu325---325---	Chemical manufacturing
pcu336110336110	Automobile and light duty motor vehicle manufacturing
pcu621111621111411	Offices of physicians, one- and two-physician practices and single-specialty group practices, general/family practice

Discontinued industry-product codes based on SIC combine a “pdu” prefix and “#” between the fourth and fifth characters of the product code. Series identifiers for the discontinued dataset use underscores as placeholders to complete a reference to an SIC industry group code of fewer than four digits. (All PPI industry-based indexes organized by SIC were discontinued with the introduction of NAICS in 2004.)

*Industry-product code,
discontinued SIC series*

pdu28_#
pdu331_#

pdu3711#111

Provides data for:

Chemicals and allied products
Blast furnaces, steel works,
and rolling and finishing mills
Passenger cars

Price indexes for discontinued series grouped by industry according to NAICS have identifiers that begin with the prefix “ndu”. After the prefix, there are 12 numeric digits (the 6-digit industry code is listed twice), and up to 7 additional alphanumeric characters that identify product detail. Dashes are used as placeholders for higher-level group codes.

*Industry-product code,
discontinued NAICS series*

ndu212231212231
ndu2122312122312
ndu212231212231214

Provides data for

Lead and zinc ore mining
Lead, zinc concentrates
Lead concentrates

- **Text Files** are best suited for users requiring access to either a large volume of time series data or other PPI-related documentation, such as seasonal factor tables and relative importance tables. The text files can be accessed at download.bls.gov/ or directly from links on the “PPI Databases” page or the PPI homepage. Data and documentation available for download include the following:

Industry Data	<u>Directory:</u> /pub/time.series/pc
Industry Data - Discontinued (NAICS basis)	/pub/time.series/nd
(SIC basis)	/pub/time.series/pd
Commodity Data (incl. FD-ID)	/pub/time.series/wp
Commodity Data – Discontinued	/pub/time.series/wd
Special requests	/pub/special.requests/ppi

Additional information

The PPI homepage (www.bls.gov/ppi) contains additional information regarding PPI data and methodology. The “PPI Publications” section of the homepage provides PPI news releases, both current and archived, as well as general PPI information. The “PPI Tables” section provides relative importance and seasonal factor tables. The remaining sections offer special notices and publications pertaining to PPI methodology and applications.

For questions or comments regarding PPI data classification, methodology, or data availability on the Internet, call or e-mail the Section of Index Analysis and Public Information at (202) 691-7705 or ppi-info@bls.gov. If you are deaf, hard of hearing, or have a speech disability, please dial 7-1-1 to access telecommunications relay services.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted
[November 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Nov. 2022 to Nov. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P	Oct. to Nov. ^P
Final Demand									
Final demand.....	FD	4	100.000	0.9	0.5	0.7	0.4	-0.4	0.0
Final demand goods.....	FD	41	30.653	-1.5	0.3	1.9	0.8	-1.4	0.0
Final demand foods.....	FD	411	5.940	-4.9	0.4	-0.4	0.6	-0.1	0.6
Finished consumer foods ³	FD	4111	4.511	-4.3	0.0	-0.2	0.5	0.1	0.6
Finished consumer foods, crude.....	FD	41113	0.606	-38.0	-2.1	-5.6	-3.6	-3.1	19.3
Finished consumer foods, processed.....	FD	41112	3.905	0.9	0.2	0.3	0.9	0.4	-0.9
Government purchased foods.....	FD	4112	0.406	1.3	1.3	0.2	1.3	0.9	-0.1
Foods for export.....	FD	4113	1.023	-10.0	1.3	-1.5	0.6	-1.7	1.1
Final demand energy.....	FD	412	5.853	-8.4	0.9	10.2	3.0	-6.7	-1.2
Finished consumer energy goods ³	FD	4121	4.451	-6.3	0.9	8.7	2.9	-7.6	-1.3
Government purchased energy.....	FD	4122	0.942	-14.4	0.3	15.7	3.3	-4.5	0.0
Energy for export.....	FD	4123	0.460	-15.8	1.9	15.1	3.9	-1.8	-1.9
Final demand goods less foods and energy.....	FD	413	18.859	1.8	0.0	0.1	0.2	0.0	0.2
Finished goods less foods and energy ³	FD	4131	10.768	2.9	0.2	0.2	0.2	0.0	0.3
Finished consumer goods less foods and energy.....	FD	41311	5.731	2.7	0.2	0.2	0.2	0.0	0.3
Nondurable consumer goods less foods and energy.....	FD	413111	3.441	3.4	0.2	0.2	0.1	0.2	0.2
Durable consumer goods.....	FD	413112	2.290	1.6	0.1	0.2	0.2	-0.3	0.4
Private capital equipment.....	FD	41312	5.037	3.1	0.3	0.2	0.2	0.0	0.2
Private capital equipment for manufacturing industries.....	FD	413121	1.222	3.9	0.3	0.2	0.1	0.0	0.2
Private capital equipment for nonmanufacturing industries.....	FD	413122	3.815	2.9	0.3	0.1	0.2	0.0	0.2
Government purchased goods, excluding foods and energy.....	FD	4132	1.967	0.7	0.0	0.1	0.2	0.1	0.0
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.160	-0.1	-0.2	0.1	0.2	0.2	-0.2
Government purchased capital equipment.....	FD	41322	0.807	2.0	0.3	0.1	0.1	0.1	0.2
Goods for export, excluding foods and energy.....	FD	4133	6.124	0.3	-0.3	0.0	0.1	0.0	0.1
Final demand services.....	FD	42	66.677	2.1	0.7	0.2	0.2	0.0	0.0
Final demand trade services ⁴	FD	423	19.700	0.3	1.6	0.1	-0.1	-0.2	-0.2
Trade of finished goods ³	FD	4231	17.049	-0.1	1.2	0.2	-0.1	-0.4	-0.2
Trade of personal consumption goods.....	FD	42311	13.855	0.1	0.6	0.1	-0.3	-0.2	-0.3
Trade of private capital equipment.....	FD	42312	3.194	-1.0	3.8	0.3	0.5	-1.3	-0.1
Trade of government purchased goods.....	FD	4232	0.750	3.2	4.1	-0.3	0.0	0.4	0.3
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.457	4.1	3.3	-0.7	-0.3	1.4	0.3
Trade of government purchased capital equipment.....	FD	42322	0.293	1.7	5.5	0.4	0.6	-1.2	0.4
Trade of exports.....	FD	4233	1.901	2.4	3.8	-0.3	-0.2	1.0	-0.1
Final demand transportation and warehousing services.....	FD	422	5.213	-4.0	0.3	0.0	0.2	1.1	-0.5
Transportation of passengers for final demand.....	FD	4221	1.275	1.9	1.7	-1.9	-3.0	2.5	-0.6
Transportation of private passengers.....	FD	42211	0.860	1.9	1.7	-1.9	-3.0	2.5	-0.6
Transportation of government passengers.....	FD	42212	0.103	1.8	1.7	-1.9	-3.0	2.5	-0.6
Transportation of passengers for export.....	FD	42213	0.312	1.9	1.7	-1.9	-3.1	2.5	-0.6
Transportation and warehousing of goods for final demand.....	FD	4222	3.938	-5.9	-0.2	0.6	1.3	0.6	-0.5
Transportation and warehousing of finished goods ³	FD	42221	2.567	-6.5	-0.3	0.6	1.3	0.6	-0.5
Transportation and warehousing of personal consumption goods.....	FD	422211	2.063	-6.3	-0.3	0.6	1.3	0.6	-0.5
Transportation and warehousing of private capital equipment.....	FD	422212	0.504	-7.5	-0.6	0.6	1.4	0.7	-0.5
Transportation and warehousing of government purchased goods.....	FD	42222	0.233	-4.6	0.2	0.4	1.2	0.5	-0.4
Transportation and warehousing of exports.....	FD	42223	1.138	-4.8	-0.2	0.8	1.2	0.7	-0.4
Final demand services less trade, transportation, and warehousing.....	FD	421	41.763	3.7	0.4	0.3	0.4	0.0	0.1
Finished services less trade, transportation, and warehousing ³	FD	4211	36.505	3.6	0.4	0.3	0.4	0.1	0.2
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	32.158	3.6	0.4	0.2	0.4	0.0	0.2
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	4.347	3.6	0.2	0.7	0.2	0.3	-0.1
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.674	3.4	0.4	0.4	0.2	-0.4	0.1
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.515	3.5	0.4	0.4	0.3	-0.4	0.2
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.159	2.6	0.1	0.6	-0.2	0.4	-1.1
Services for export less trade, transportation, and warehousing.....	FD	4213	2.584	5.6	0.3	0.2	0.6	-0.6	-0.3
Final demand construction.....	FD	43	2.670	0.4	-1.2	0.1	0.1	-0.4	-0.2
Construction for private capital investment.....	FD	431	1.856	0.3	-1.3	0.1	0.1	-0.4	-0.2
Construction for government.....	FD	432	0.814	0.6	-1.0	0.1	0.0	-0.3	-0.1
Special Groupings of Final Demand									
Final demand less exports.....	FD	49101	86.458	1.0	0.5	0.8	0.4	-0.5	0.0
Final demand less government.....	FD	49102	92.111	1.0	0.5	0.6	0.4	-0.4	0.0

See footnotes at end of table.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued
[November 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Nov. 2022 to Nov. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P	Oct. to Nov. ^P
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁵	FD	49103	87.791	1.9	0.5	0.2	0.2	0.0	0.0
Final demand less foods and energy ⁵	FD	49104	88.207	2.0	0.5	0.2	0.2	0.0	0.0
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49105	93.644	1.1	0.6	0.8	0.4	-0.5	0.0
Final demand less foods ⁵	FD	49106	94.060	1.2	0.5	0.8	0.4	-0.5	0.0
Final demand less energy.....	FD	49107	94.147	1.5	0.5	0.2	0.2	0.0	0.1
Final demand less trade services.....	FD	49108	80.300	1.0	0.3	0.9	0.5	-0.5	0.0
Final demand less distributive services ⁶	FD	49109	76.362	1.4	0.3	0.9	0.5	-0.5	0.1
Final demand goods less energy.....	FD	49111	24.799	0.2	0.1	0.0	0.3	0.0	0.3
Final demand goods less foods.....	FD	49112	24.712	-0.7	0.2	2.4	0.9	-1.7	-0.2
Final demand services less trade services.....	FD	49113	46.976	2.8	0.4	0.3	0.4	0.1	0.1
Final demand distributive services ⁶	FD	49114	23.638	-0.7	1.3	0.2	0.1	-0.1	-0.2
Final demand goods plus final demand distributive services ⁶	FD	49115	54.290	-1.2	0.7	1.2	0.5	-0.9	-0.1
Final demand less foods, energy, and trade services ⁵	FD	49116	68.507	2.5	0.2	0.2	0.3	0.1	0.1
Private and government purchased capital equipment.....	FD	49117	5.844	2.9	0.3	0.1	0.2	0.0	0.2
Private and government purchased capital investment services.....	FD	49118	8.497	1.1	1.7	0.5	0.4	-0.3	-0.1
Total private and government purchased capital investment.....	FD	49119	14.341	1.7	0.7	0.3	0.3	-0.2	0.0
Total finished ³	FD	49201	78.567	1.2	0.5	0.7	0.4	-0.5	0.0
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{3,5}	FD	49202	69.193	2.1	0.5	0.2	0.2	0.0	0.1
Total finished less foods and energy ^{3,5}	FD	49203	69.605	2.1	0.5	0.2	0.2	0.0	0.1
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{3,5}	FD	49204	73.644	1.5	0.5	0.7	0.4	-0.5	0.0
Total finished less foods ^{3,5}	FD	49205	74.056	1.5	0.5	0.7	0.4	-0.5	0.0
Total finished less energy ³	FD	49206	74.116	1.7	0.5	0.2	0.2	0.0	0.1
Finished goods ³	FD	49207	19.730	-0.9	0.3	2.1	0.9	-1.9	0.0
Finished goods less energy ³	FD	49208	15.279	0.7	0.2	0.1	0.3	0.0	0.4
Finished goods, excluding foods ^{3,5}	FD	49209	15.219	0.1	0.4	2.7	1.0	-2.4	-0.2
Finished services ³	FD	49210	56.981	2.0	0.6	0.2	0.2	0.0	0.0
Private capital investment services.....	FD	49211	8.045	1.1	1.6	0.5	0.4	-0.3	-0.1
Finished distributive services ^{3,6}	FD	49212	19.616	-0.9	1.0	0.2	0.0	-0.3	-0.3
Finished services less trade services ³	FD	49213	39.932	2.9	0.4	0.3	0.4	0.1	0.1
Finished services less distributive services ^{3,6}	FD	49214	37.365	3.6	0.4	0.2	0.3	0.1	0.2
Total private capital investment (goods, services, and construction).....	FD	49215	14.938	1.7	0.8	0.4	0.3	-0.2	0.0
Finished goods plus finished distributive services ^{3,6}	FD	49216	39.346	-0.9	0.7	1.1	0.5	-1.1	-0.1
Total exports.....	FD	49301	13.542	-0.1	0.6	0.4	0.3	0.0	-0.1
Goods for export.....	FD	49302	7.607	-2.0	0.0	0.6	0.4	-0.3	0.1
Services for export.....	FD	49303	5.935	2.4	1.4	0.1	0.3	0.3	-0.3
Total government purchases.....	FD	49401	7.889	-0.4	0.6	1.8	0.6	-0.6	0.0
Government purchased goods.....	FD	49402	3.315	-3.6	0.2	4.2	1.2	-1.1	-0.1
Government purchased services.....	FD	49403	3.760	2.8	1.1	0.2	0.2	-0.1	0.1
Total government purchased capital investment (goods, services, construction).....	FD	49404	2.073	1.5	0.5	0.2	0.1	-0.2	0.0
Government purchases, defense.....	FD	49405	2.344	-0.3	1.2	2.1	0.9	-0.4	-0.1
Government purchases, non-defense.....	FD	49406	5.545	-0.5	0.3	1.7	0.5	-0.6	0.1
Personal consumption.....	FD	49501	63.629	1.0	0.4	0.8	0.4	-0.6	0.0
Personal consumption goods (finished consumer goods).....	FD	49502	14.693	-2.3	0.3	2.7	1.2	-2.5	-0.1
Personal consumption goods less energy.....	FD	49503	10.242	-0.4	0.1	0.0	0.3	0.1	0.4
Personal consumption goods less foods.....	FD	49504	10.182	-1.4	0.5	3.9	1.4	-3.5	-0.4
Personal consumption nondurable goods less foods.....	FD	49508	7.892	-2.1	0.6	5.0	1.7	-4.4	-0.7
Personal consumption services.....	FD	49505	48.936	2.1	0.5	0.2	0.2	0.0	0.0
Personal consumption less trade services.....	FD	49506	49.774	1.3	0.4	0.9	0.6	-0.7	0.1
Personal consumption less distributive services ⁶	FD	49507	47.711	1.6	0.4	1.0	0.6	-0.7	0.1
Personal consumption less foods and energy.....	FD	49510	54.667	2.2	0.4	0.2	0.2	0.0	0.1
Personal consumption less foods, energy, and trade services ⁴	FD	49511	40.812	2.9	0.4	0.2	0.3	0.1	0.2
Personal consumption less foods, energy, and distributive services ⁶	FD	49512	38.749	3.4	0.4	0.2	0.3	0.1	0.2
Personal consumption goods plus personal consumption distributive services ⁶	FD	49509	30.611	-1.5	0.4	1.4	0.5	-1.3	-0.2
Intermediate Demand by Commodity Type									
Processed goods									
Processed goods for intermediate demand.....	ID6	1	100.000	-4.1	-0.3	2.1	0.5	-1.0	0.0
Materials and components for manufacturing.....	ID6	11	42.908	-3.1	-0.8	-0.2	0.0	-0.1	-0.4
Materials for manufacturing.....	ID6	111	26.996	-5.9	-1.3	-0.3	0.0	-0.3	-0.7
Materials for food manufacturing.....	ID6	1111	4.432	-5.1	0.9	0.9	0.8	0.3	-0.6
Materials for nondurable manufacturing.....	ID6	1112	12.302	-7.7	-1.7	-0.1	0.7	0.6	-0.9
Materials for durable manufacturing.....	ID6	1113	10.262	-4.1	-1.8	-1.0	-1.1	-1.5	-0.5
Components for manufacturing.....	ID6	112	15.912	1.7	0.1	0.0	0.1	0.1	0.1

See footnotes at end of table.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued
[November 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Nov. 2022 to Nov. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P	Oct. to Nov. ^P
Components for nondurable manufacturing.....	ID6	1121	0.793	-2.1	-0.4	-0.1	-0.4	0.0	0.0
Components for durable manufacturing.....	ID6	1122	15.119	1.9	0.1	0.0	0.1	0.1	0.1
Materials and components for construction.....	ID6	12	10.348	0.8	0.3	0.1	0.3	0.0	0.2
Materials for construction.....	ID6	121	4.574	0.4	0.6	0.2	0.6	-0.3	0.1
Components for construction.....	ID6	122	5.774	1.1	0.1	0.1	0.2	0.3	0.2
Processed fuels and lubricants for intermediate demand.....	ID6	13	19.830	-11.8	-0.1	11.8	2.3	-4.6	1.0
Processed fuels and lubricants to manufacturing industries.....	ID6	131	5.016	-8.6	-0.8	6.9	1.6	-0.8	1.9
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.814	-12.8	0.2	13.5	2.6	-5.8	0.7
Containers for intermediate demand.....	ID6	14	3.107	-3.3	-0.4	-0.5	-0.4	-0.2	-0.3
Supplies for intermediate demand.....	ID6	15	23.807	-1.0	0.1	0.1	0.1	-0.1	-0.2
Supplies to manufacturing industries.....	ID6	151	3.173	-1.0	-0.4	-0.2	0.0	0.0	0.0
Supplies to nonmanufacturing industries.....	ID6	152	20.634	-0.9	0.2	0.1	0.2	-0.1	-0.2
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	2.363	-8.5	2.6	0.7	0.1	-1.7	-0.3
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.271	0.0	0.0	0.0	0.2	0.1	-0.2
Unprocessed goods									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	-13.1	2.4	2.2	3.3	-1.8	-1.4
Unprocessed foodstuffs and feedstuffs.....	ID6	21	36.058	-14.8	-0.9	0.1	2.3	-3.1	-1.0
Unprocessed nonfood materials.....	ID6	22	63.942	-12.2	4.5	3.5	3.9	-1.0	-1.7
Unprocessed nonfood materials except fuel.....	ID6	221	45.514	-7.3	2.6	4.3	5.2	-2.0	-5.0
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	43.610	-8.0	2.8	4.4	5.4	-2.1	-5.3
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.904	-8.4	-0.3	1.2	0.4	0.3	0.4
Unprocessed fuel.....	ID6	222	18.428	-34.8	15.5	-0.3	-2.9	4.7	16.1
Unprocessed fuel to manufacturing industries.....	ID6	2221	0.982	-18.0	3.8	1.1	-3.3	2.8	2.2
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	17.446	-36.0	16.8	-0.4	-2.9	4.9	17.5
Services									
Services for intermediate demand.....	ID6	3	100.000	2.9	0.6	-0.1	0.2	0.1	0.2
Trade services for intermediate demand ⁴	ID6	33	18.127	2.5	2.1	-0.5	-0.6	2.1	-0.1
Trade services for manufacturing industries.....	ID6	331	8.929	2.3	1.8	-0.7	-0.9	2.4	-0.2
Trade services for nonmanufacturing industries.....	ID6	332	9.198	2.7	2.4	-0.3	-0.2	1.8	0.0
Transportation and warehousing services for intermediate demand.....	ID6	32	14.516	-0.8	0.9	-0.6	0.5	0.7	-0.2
Transportation of passengers for intermediate demand.....	ID6	321	1.069	1.8	1.7	-1.9	-3.0	2.5	-0.6
Transportation of passengers for manufacturing industries.....	ID6	3211	0.127	1.9	1.7	-1.9	-3.1	2.5	-0.6
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.942	1.8	1.7	-1.9	-3.0	2.4	-0.6
Transportation and warehousing of goods for intermediate demand.....	ID6	322	13.447	-1.0	0.8	-0.5	0.8	0.6	-0.2
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.941	-4.1	0.2	0.6	0.9	0.5	-0.2
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	10.506	-0.2	1.0	-0.8	0.8	0.6	-0.2
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	67.357	4.0	0.1	0.1	0.3	-0.5	0.4
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.068	3.8	0.3	0.2	0.2	0.4	0.0
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	65.288	4.0	0.1	0.1	0.3	-0.6	0.4
Construction									
Construction for intermediate demand.....	ID6	4	100.000	3.6	0.1	0.0	0.0	0.2	0.1
Special Groupings of Intermediate Demand by Commodity Type									
Processed materials less foods and feeds.....	ID6	9111	90.968	-4.0	-0.4	2.3	0.5	-1.1	0.0
Processed foods and feeds.....	ID6	9112	9.032	-5.0	1.2	0.8	0.7	-0.3	-0.6
Processed energy goods.....	ID6	9113	19.830	-11.8	-0.1	11.8	2.3	-4.6	1.0
Processed materials less energy.....	ID6	9118	80.170	-2.0	-0.3	-0.1	0.1	-0.1	-0.3
Processed materials less foods and energy.....	ID6	9115	71.138	-1.6	-0.5	-0.2	0.0	-0.1	-0.2
Intermediate distributive services ⁷	ID6	9116	31.574	0.9	1.6	-0.5	0.0	1.4	-0.1
Processed goods plus intermediate distributive services.....	ID6	9117	-	-2.7	0.3	1.3	0.4	-0.3	0.0
Unprocessed materials less agricultural products.....	ID6	9211	58.389	-9.9	6.0	4.0	4.8	-0.8	-1.7
Unprocessed energy materials ⁸	ID6	9212	43.623	-14.8	10.1	5.8	6.8	-1.5	-3.2
Unprocessed materials less energy.....	ID6	9213	56.377	-11.3	-1.7	0.1	1.1	-2.0	-0.3
Unprocessed nonfood materials less energy ⁹	ID6	9216	20.319	-5.3	-3.1	0.1	-0.7	-0.1	0.7
Intermediate Demand by Production Flow									
Stage 4 Intermediate Demand									
Stage 4 intermediate demand.....	ID5	4	100.000	1.5	0.3	0.5	0.2	-0.3	0.1
Inputs to stage 4 goods producers.....	ID5	41	30.237	-0.5	0.0	-0.1	-0.2	0.2	0.0
Goods.....	ID5	411	22.423	-1.8	-0.3	-0.1	-0.1	-0.3	0.0

See footnotes at end of table.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued
[November 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Nov. 2022 to Nov. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P	Oct. to Nov. ^P
Foods.....	ID5	4111	3.300	-10.2	-1.4	0.7	-0.8	-1.5	0.5
Energy.....	ID5	4112	0.220	-9.5	-0.3	4.8	4.6	4.2	0.3
Goods excluding foods and energy.....	ID5	4113	18.903	-0.2	-0.2	-0.3	-0.1	-0.1	-0.1
Services.....	ID5	412	7.814	3.2	1.1	0.0	-0.4	1.4	0.2
Trade services.....	ID5	4123	5.817	3.5	1.3	0.0	-0.7	1.7	0.3
Transportation and warehousing services.....	ID5	4122	0.515	-2.3	0.1	0.1	0.4	1.2	-0.1
Transportation of passengers.....	ID5	41221	0.077	1.9	1.7	-1.9	-3.1	2.5	-0.6
Transportation and warehousing of goods.....	ID5	41222	0.438	-3.0	-0.2	0.5	1.0	1.0	0.0
Services less trade, transportation, and warehousing.....	ID5	4121	1.482	4.0	0.2	-0.1	0.7	0.3	0.1
Inputs to stage 4 services producers.....	ID5	42	54.970	3.0	0.5	0.7	0.3	-0.5	0.2
Goods.....	ID5	421	13.984	-0.2	0.1	1.2	0.6	-0.6	0.4
Foods.....	ID5	4211	2.360	-3.4	0.9	0.6	1.3	-0.1	-1.3
Energy.....	ID5	4212	4.133	-0.4	-0.3	4.0	1.0	-2.0	2.0
Goods excluding foods and energy.....	ID5	4213	7.491	0.8	0.1	-0.1	0.1	0.0	0.0
Services.....	ID5	422	40.934	4.2	0.7	0.5	0.2	-0.5	0.2
Trade services.....	ID5	4223	4.078	2.2	2.6	-0.4	-0.6	1.6	-0.2
Transportation and warehousing services.....	ID5	4222	3.742	1.8	1.4	-0.7	0.5	0.5	-0.3
Transportation of passengers.....	ID5	42221	0.490	1.9	1.7	-1.9	-3.1	2.5	-0.6
Transportation and warehousing of goods.....	ID5	42222	3.252	1.8	1.3	-0.5	1.0	0.3	-0.3
Services less trade, transportation, and warehousing.....	ID5	4221	33.114	4.8	0.4	0.7	0.3	-0.8	0.3
Construction.....	ID5	423	0.052	3.6	0.1	0.0	0.0	0.2	0.1
Inputs to stage 4 construction producers.....	ID5	43	14.792	-0.1	0.2	1.2	0.6	-0.4	-0.1
Goods.....	ID5	431	10.801	-0.3	0.2	1.7	0.7	-1.0	0.0
Energy.....	ID5	4312	0.855	-17.3	-1.0	18.7	4.5	-11.5	-1.9
Goods excluding foods and energy.....	ID5	4313	9.946	1.5	0.2	0.3	0.4	0.0	0.2
Services.....	ID5	432	3.991	0.5	0.4	0.0	0.4	1.4	-0.3
Trade services.....	ID5	4323	1.692	1.2	0.9	-0.3	0.1	2.3	-0.4
Transportation and warehousing services.....	ID5	4322	0.725	-6.7	-0.5	0.5	1.3	0.8	-0.4
Transportation of passengers.....	ID5	43221	0.015	1.9	1.7	-1.9	-3.1	2.5	-0.6
Transportation and warehousing of goods.....	ID5	43222	0.710	-6.9	-0.6	0.5	1.4	0.8	-0.4
Services less trade, transportation, and warehousing.....	ID5	4321	1.574	3.3	0.3	0.0	0.3	0.6	0.0
Stage 3 Intermediate Demand									
Stage 3 intermediate demand.....	ID5	3	100.000	-3.7	-0.4	1.1	0.6	-0.5	-0.1
Inputs to stage 3 goods producers.....	ID5	31	45.352	-6.9	-1.2	0.3	0.6	-0.5	-0.7
Goods.....	ID5	311	35.807	-8.5	-1.7	0.5	0.8	-1.2	-0.8
Foods.....	ID5	3111	11.906	-15.9	-2.0	2.2	2.6	-2.9	-2.4
Energy.....	ID5	3112	1.292	-18.4	-2.2	8.4	3.7	1.0	1.7
Goods excluding foods and energy.....	ID5	3113	22.609	-3.8	-1.6	-0.6	-0.2	-0.5	-0.1
Services.....	ID5	312	9.545	-0.9	0.4	-0.5	-0.3	2.0	-0.5
Trade services.....	ID5	3123	5.175	0.4	0.8	-1.2	-1.1	3.1	-0.7
Transportation and warehousing services.....	ID5	3122	3.002	-5.3	-0.2	0.5	0.9	0.7	-0.3
Transportation of passengers.....	ID5	31221	0.144	1.9	1.7	-1.9	-3.1	2.5	-0.6
Transportation and warehousing of goods.....	ID5	31222	2.858	-5.6	-0.3	0.6	1.1	0.6	-0.3
Services less trade, transportation, and warehousing.....	ID5	3121	1.368	4.3	0.4	0.3	0.1	0.6	0.0
Inputs to stage 3 services producers.....	ID5	32	53.518	-1.2	0.3	1.8	0.6	-0.6	0.3
Goods.....	ID5	321	10.628	-12.9	-0.4	13.2	2.4	-4.1	-0.1
Foods.....	ID5	3211	0.090	-3.2	0.1	1.1	-0.5	0.0	0.6
Energy.....	ID5	3212	6.619	-19.1	-0.5	22.6	3.8	-6.5	-0.2
Goods excluding foods and energy.....	ID5	3213	3.919	-0.4	-0.2	0.1	0.1	0.0	0.0
Services.....	ID5	322	42.317	2.6	0.5	-0.7	0.1	0.3	0.5
Trade services.....	ID5	3223	2.614	4.2	2.8	-0.5	-0.2	1.4	0.2
Transportation and warehousing services.....	ID5	3222	10.018	1.1	1.1	-1.2	0.6	0.7	-0.1
Transportation of passengers.....	ID5	32221	0.021	0.1	0.2	0.1	-0.2	0.0	0.0
Transportation and warehousing of goods.....	ID5	32222	9.997	1.1	1.1	-1.2	0.6	0.7	-0.1
Services less trade, transportation, and warehousing.....	ID5	3221	29.685	3.0	0.1	-0.5	0.0	0.1	0.7
Construction.....	ID5	323	0.573	3.6	0.1	0.0	0.0	0.2	0.1
Inputs to stage 3 construction producers.....	ID5	33	1.131	-0.7	1.5	0.6	0.8	0.0	0.0
Goods.....	ID5	331	0.566	-2.0	0.3	0.0	0.2	-0.8	0.1
Goods excluding foods and energy.....	ID5	3313	0.566	-2.0	0.3	0.0	0.2	-0.8	0.1
Services.....	ID5	332	0.565	0.9	2.6	1.1	1.4	0.7	0.0
Trade services.....	ID5	3323	0.521	0.8	2.8	1.2	1.6	0.7	0.0
Transportation and warehousing services.....	ID5	3322	0.015	0.6	0.6	0.8	0.5	0.6	0.3
Transportation and warehousing of goods.....	ID5	33222	0.015	0.6	0.6	0.8	0.5	0.6	0.3
Services less trade, transportation, and warehousing.....	ID5	3321	0.029	3.9	0.5	0.1	-0.1	0.5	-0.2
Stage 2 Intermediate Demand									

See footnotes at end of table.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued
 [November 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Nov. 2022 to Nov. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P	Oct. to Nov. ^P
Stage 2 intermediate demand.....	ID5	2	100.000	-2.4	1.9	0.6	1.1	-0.2	-0.5
Inputs to stage 2 goods producers.....	ID5	21	54.274	-6.9	3.8	1.5	2.3	-0.6	-1.1
Goods.....	ID5	211	40.812	-10.2	4.6	2.4	3.4	-1.1	-1.6
Foods.....	ID5	2111	4.355	-9.5	4.3	-1.3	1.6	-2.6	1.3
Energy.....	ID5	2112	21.042	-15.3	10.7	5.9	6.9	-1.8	-3.3
Goods excluding foods and energy.....	ID5	2113	15.415	-3.7	-1.1	-0.2	0.1	0.1	-0.3
Services.....	ID5	212	13.197	2.7	1.9	-0.9	-0.5	1.0	0.3
Trade services.....	ID5	2123	5.150	2.2	3.6	-2.0	-1.2	1.8	0.4
Transportation and warehousing services.....	ID5	2122	4.488	0.8	1.6	0.1	0.0	0.3	0.1
Transportation of passengers.....	ID5	21221	0.168	1.8	1.6	-1.8	-2.9	2.4	-0.5
Transportation and warehousing of goods.....	ID5	21222	4.320	0.7	1.6	0.2	0.1	0.3	0.1
Services less trade, transportation, and warehousing.....	ID5	2121	3.559	5.8	-0.1	-0.4	-0.3	0.4	0.2
Construction.....	ID5	213	0.265	3.6	0.1	0.0	0.0	0.2	0.1
Inputs to stage 2 services producers.....	ID5	22	45.725	2.8	-0.1	-0.3	-0.3	0.3	0.2
Goods.....	ID5	221	5.072	-2.2	-0.1	0.8	0.3	-0.3	-0.3
Foods.....	ID5	2211	0.055	-13.6	-0.4	-1.1	0.0	-0.7	1.2
Energy.....	ID5	2212	0.357	-17.5	0.8	15.6	2.0	-7.7	1.2
Goods excluding foods and energy.....	ID5	2213	4.660	-0.8	-0.1	-0.1	0.2	0.2	-0.4
Services.....	ID5	222	39.767	3.5	-0.1	-0.4	-0.4	0.4	0.3
Trade services.....	ID5	2223	2.238	3.7	-0.4	1.3	-1.0	5.2	-0.8
Transportation and warehousing services.....	ID5	2222	2.862	-6.8	0.0	-4.6	0.3	1.3	0.0
Transportation of passengers.....	ID5	22221	0.390	1.9	1.7	-1.9	-3.0	2.5	-0.6
Transportation and warehousing of goods.....	ID5	22222	2.472	-8.2	-0.2	-5.1	0.9	1.1	0.0
Services less trade, transportation, and warehousing.....	ID5	2221	34.667	4.2	-0.1	-0.2	-0.4	0.0	0.4
Construction.....	ID5	223	0.886	3.6	0.1	0.0	0.0	0.2	0.1
Stage 1 Intermediate Demand									
Stage 1 intermediate demand.....	ID5	1	100.000	-1.5	0.1	1.4	0.3	-0.4	0.1
Inputs to stage 1 goods producers.....	ID5	11	33.533	-4.8	-0.4	0.5	-0.3	0.5	-0.5
Goods.....	ID5	111	24.780	-6.8	-1.0	1.0	-0.1	-0.2	-0.4
Foods.....	ID5	1111	3.351	-18.6	-2.7	-0.2	-2.7	-1.6	-1.1
Energy.....	ID5	1112	3.963	-10.2	0.8	6.8	2.0	-0.4	1.3
Goods excluding foods and energy.....	ID5	1113	17.466	-3.8	-1.1	0.0	-0.1	0.1	-0.6
Services.....	ID5	112	8.752	1.0	1.4	-0.9	-0.6	2.2	-0.6
Trade services.....	ID5	1123	5.298	0.2	1.9	-1.5	-1.2	3.9	-1.2
Transportation and warehousing services.....	ID5	1122	0.599	0.2	2.0	0.7	-0.5	-0.1	0.1
Transportation of passengers.....	ID5	11221	0.103	1.9	1.7	-1.9	-3.1	2.5	-0.6
Transportation and warehousing of goods.....	ID5	11222	0.496	0.0	2.0	1.3	0.0	-0.6	0.2
Services less trade, transportation, and warehousing.....	ID5	1121	2.855	2.8	0.4	-0.2	0.4	-0.5	0.4
Construction.....	ID5	113	0.001	3.6	0.1	0.0	0.0	0.2	0.1
Inputs to stage 1 services producers.....	ID5	12	53.646	0.7	0.3	1.8	0.5	-0.9	0.4
Goods.....	ID5	121	16.434	-4.7	-0.4	4.8	0.8	-1.8	0.5
Foods.....	ID5	1211	0.115	-39.5	-0.1	0.4	-0.9	-2.7	0.6
Energy.....	ID5	1212	5.528	-14.8	-1.4	15.4	2.1	-5.5	1.4
Goods excluding foods and energy.....	ID5	1213	10.791	1.9	0.0	0.1	0.2	0.2	0.0
Services.....	ID5	122	37.209	3.5	0.6	0.6	0.4	-0.5	0.4
Trade services.....	ID5	1223	3.617	4.0	1.6	-0.1	-0.3	1.6	0.3
Transportation and warehousing services.....	ID5	1222	4.373	1.2	1.4	-0.3	-0.4	1.1	-0.4
Transportation of passengers.....	ID5	12221	1.342	1.9	1.7	-1.9	-3.1	2.5	-0.6
Transportation and warehousing of goods.....	ID5	12222	3.031	0.9	1.3	0.5	0.8	0.5	-0.3
Services less trade, transportation, and warehousing.....	ID5	1221	29.219	3.8	0.4	0.8	0.6	-1.0	0.5
Construction.....	ID5	123	0.003	3.6	0.1	0.0	0.0	0.2	0.1
Inputs to stage 1 construction producers.....	ID5	13	12.821	-1.8	0.3	2.2	0.8	-0.2	0.2
Goods.....	ID5	131	9.208	-2.2	-0.3	2.7	0.6	-0.7	0.4
Energy.....	ID5	1312	0.934	-26.8	-3.5	30.2	2.7	-8.2	1.8
Goods excluding foods and energy.....	ID5	1313	8.274	1.6	0.0	0.4	0.4	0.1	0.2
Services.....	ID5	132	3.613	-1.0	1.6	1.0	1.2	0.9	-0.2
Trade services.....	ID5	1323	2.667	1.5	2.2	1.1	1.2	1.1	-0.1
Transportation and warehousing services.....	ID5	1322	0.854	-8.3	-0.6	0.6	1.5	0.6	-0.6
Transportation and warehousing of goods.....	ID5	13222	0.854	-8.3	-0.6	0.6	1.5	0.6	-0.6
Services less trade, transportation, and warehousing.....	ID5	1321	0.092	4.3	0.5	-0.1	1.0	-0.2	0.2
Special Groupings of Intermediate Demand by Production Flow									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.208	-0.9	-0.1	0.7	0.3	-0.5	0.1
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.739	3.7	0.7	0.4	0.2	-0.1	0.2
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.052	3.6	0.1	0.0	0.0	0.2	0.1
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.660	-7.3	-0.4	0.6	0.1	-0.9	-0.3

See footnotes at end of table.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued
[November 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Nov. 2022 to Nov. 2023 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			June to July	July to Aug. ^p	Aug. to Sept. ^p	Sept. to Oct. ^p	Oct. to Nov. ^p
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	5.208	-4.0	-0.4	6.5	1.8	-3.5	1.3
Total goods less foods and energy inputs to stage 4 intermediate demand.	ID5	9416	36.340	0.5	0.0	-0.1	0.1	0.0	0.0
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	47.001	-9.5	-1.4	3.3	1.2	-1.9	-0.6
Total services inputs to stage 3 intermediate demand.....	ID5	9312	52.427	1.9	0.5	-0.6	0.0	0.6	0.3
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.573	3.6	0.1	0.0	0.0	0.2	0.1
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.996	-15.8	-1.9	2.2	2.6	-2.8	-2.3
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.911	-19.0	-0.8	20.2	3.8	-5.4	0.1
Total goods less foods and energy inputs to stage 3 intermediate demand.	ID5	9316	27.094	-3.3	-1.3	-0.5	-0.1	-0.5	-0.1
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	45.884	-9.3	4.0	2.2	3.1	-1.0	-1.4
Total services inputs to stage 2 intermediate demand.....	ID5	9212	52.964	3.3	0.4	-0.5	-0.4	0.5	0.3
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	1.151	3.6	0.1	0.0	0.0	0.2	0.1
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	4.410	-9.6	4.2	-1.3	1.6	-2.6	1.3
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	21.399	-15.3	10.5	6.0	6.8	-1.9	-3.2
Total goods less foods and energy inputs to stage 2 intermediate demand.	ID5	9216	20.075	-3.0	-0.8	-0.2	0.1	0.2	-0.3
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	50.422	-5.3	-0.7	2.6	0.3	-0.8	0.1
Total services inputs to stage 1 intermediate demand.....	ID5	9112	49.574	2.6	0.8	0.4	0.3	0.1	0.2
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.004	3.6	0.1	0.0	0.0	0.2	0.1
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.466	-19.3	-2.6	-0.2	-2.7	-1.6	-1.0
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.425	-14.7	-0.7	13.3	2.1	-3.9	1.4
Total goods less foods and energy inputs to stage 1 intermediate demand.	ID5	9116	36.531	-0.9	-0.5	0.1	0.1	0.2	-0.2

¹ Comprehensive relative importance figures are initially computed after the publication of December indexes and are recalculated after final December indexes are available. Individual items and subtotals may not add exactly to totals because of rounding differences.

² All indexes are subject to revision for 4 months after their originally scheduled publication to incorporate late reports and corrections by survey respondents. In addition, seasonally adjusted indexes are subject to change for up to 5 years due to the recalculation of seasonal factors published each January.

³ PPI defines Total finished as including only the personal consumption and private capital investment portions of final demand.

⁴ Trade indexes measure changes in margins received by wholesalers and retailers.

⁵ The PPI definition of foods does not include food and beverages for immediate consumption. PPI defines food and beverages for immediate consumption as the service of preparing meals, snacks, and beverages to customer order for immediate on-premises and off-premises consumption.

⁶ Distributive services include transportation, warehousing, and trade of goods.

⁷ Includes intermediate trade, transportation, and warehousing services.

⁸ Includes crude petroleum.

⁹ Excludes crude petroleum.

^p Preliminary

"/" Data not available.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted
[November 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Nov. 2022 to Nov. 2023 ^P	June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Final Demand								
Final demand.....	FD	4	0.9	0.5	0.7	0.4	-0.4	0.0
Final demand goods.....	FD	41	-1.5	0.3	1.9	0.8	-1.4	0.0
Final demand foods.....	FD	411	-4.9	0.4	-0.4	0.6	-0.1	0.6
Fresh fruits and melons ²	01	11	-6.1	-10.2	4.7	0.2	-6.2	18.3
Fresh and dry vegetables ²	01	13	-53.2	3.5	-11.5	-13.9	-1.7	11.2
Grains.....	01	2	-32.0	-8.7	-2.7	-6.3	-3.0	-3.3
Eggs for fresh use ²	01	7107	-39.7	0.3	9.8	8.1	-12.9	71.2
Oilseeds.....	01	8301	-8.1	9.0	-4.3	4.3	-4.7	5.0
Bakery products ²	02	11	3.6	0.1	0.1	1.0	0.0	0.1
Milled rice ²	02	13	-2.8	-0.4	-0.9	-2.7	-1.6	-2.1
Pasta products ²	02	1402	0.1	-2.0	0.0	0.0	1.2	0.0
Beef and veal.....	02	2101	25.6	3.0	-4.5	2.9	1.8	1.8
Pork.....	02	2104	-6.7	10.8	-0.8	0.9	0.9	-0.7
Processed young chickens.....	02	2203	-10.6	-1.6	2.2	7.2	1.3	-8.5
Processed turkeys ²	02	2206	-39.2	-3.1	-3.2	-2.5	-1.4	-1.6
Finfish and shellfish.....	02	23	-6.4	-1.7	-0.7	-1.7	-0.9	0.6
Dairy products.....	02	3	-6.2	-1.4	2.2	1.2	1.3	-0.4
Processed fruits and vegetables ²	02	4	9.6	0.5	0.4	2.0	0.7	0.0
Confectionery end products ²	02	55	1.3	0.7	-0.5	-0.6	-0.1	0.7
Soft drinks ²	02	62	4.5	-1.8	0.9	-0.8	0.3	-0.8
Roasted coffee ²	02	6301	6.4	0.4	5.8	0.3	-0.2	0.0
Shortening and cooking oils ²	02	78	-9.9	7.4	-0.1	-3.7	-2.0	3.1
Frozen specialty food ²	02	85	3.3	-0.1	0.1	-0.2	0.0	0.2
Final demand energy.....	FD	412	-8.4	0.9	10.2	3.0	-6.7	-1.2
Liquefied petroleum gas ²	05	32	-27.3	25.4	4.7	7.5	-6.8	-6.1
Residential electric power.....	05	41	4.9	0.0	-0.1	0.9	0.1	0.5
Residential natural gas.....	05	51	-8.2	1.6	-0.9	-0.1	-1.2	3.0
Gasoline.....	05	71	-12.8	0.3	18.7	5.1	-15.5	-4.1
Home heating oil and distillates.....	05	7302	-22.4	15.8	20.8	9.0	-11.1	-7.9
No. 2 diesel fuel.....	05	7303	-29.7	-4.8	39.2	2.6	-11.7	2.6
Final demand goods less foods and energy.....	FD	413	1.8	0.0	0.1	0.2	0.0	0.2
Alcoholic beverages.....	02	61	1.4	0.1	0.2	0.5	0.2	0.0
Pet food ²	02	9402	6.0	0.0	0.0	0.0	0.0	0.0
Women's, girls', and infants' apparel ²	03	8106	-2.2	0.1	0.0	0.0	-1.0	0.0
Men's and boys' apparel ²	03	8107	1.7	-0.5	0.1	0.0	-0.1	0.0
Textile housefurnishings ²	03	82	-0.1	0.1	-0.4	0.0	0.0	0.0
Footwear.....	04	3	1.3	0.1	-0.1	-0.3	0.1	-0.1
Industrial chemicals.....	06	1	-9.2	-2.3	-0.1	1.2	1.9	-3.0
Pharmaceutical preparations.....	06	38	2.5	0.3	0.1	0.2	0.2	0.1
Soaps and detergents ²	06	71	4.7	0.1	0.0	-0.1	0.1	-0.2
Cleaning and polishing products ²	06	72	1.9	-0.2	0.0	0.0	0.1	-0.1
Cosmetics and other toiletries ²	06	75	4.8	0.0	0.0	-0.1	0.3	0.0
Tires ²	07	1201	2.7	-0.1	0.0	-0.2	0.0	-0.1
Consumer, institutional, and commercial products, n.e.c. ²	07	2B	0.3	0.1	0.1	-0.3	0.2	0.0
Sanitary paper products ²	09	1501	-1.5	0.0	-0.6	0.1	-0.8	-1.9
Iron and steel scrap.....	10	12	14.1	2.6	2.9	0.8	0.8	7.7
Agricultural machinery and equipment.....	11	1	1.1	0.5	0.1	0.3	-0.1	-0.6
Construction machinery and equipment ²	11	2	6.9	1.6	-0.3	0.0	0.0	1.0
Metal cutting machine tools ²	11	37	2.5	0.4	0.0	0.0	0.0	0.0
Metal forming machine tools.....	11	38	10.6	0.2	0.1	7.9	0.3	-0.1
Tools, dies, jigs, fixtures, and industrial molds ²	11	39	5.6	0.1	0.5	0.1	0.2	0.6
Pumps, compressors, and equipment.....	11	41	5.9	1.4	0.5	-0.3	0.4	0.3
Industrial material handling equipment ²	11	44	3.4	0.3	0.0	-0.1	0.3	0.0
Electronic computers and computer equipment ²	11	5	-0.2	-0.2	1.4	-0.1	-0.9	0.3
Textile machinery and equipment ²	11	62	0.0	0.0	0.0	0.0	0.0	0.0
Paper industries machinery ²	11	64	3.3	0.0	-0.3	-0.1	0.0	0.0
Printing trades machinery and equipment ²	11	65	3.7	0.1	0.5	-0.4	2.4	0.4
Transformers and power regulators ²	11	74	2.5	0.5	0.4	0.0	0.2	0.0
Communication and related equipment.....	11	76	2.1	-0.1	0.1	0.1	0.1	0.2
Electronic components and accessories.....	11	78	-0.7	0.3	0.3	-0.1	0.0	0.1
X-ray and electromedical equipment ²	11	7905	2.6	1.1	0.0	0.0	0.0	0.0
Oil field and gas field machinery ²	11	91	2.6	0.0	0.0	0.7	0.0	0.4
Mining machinery and equipment ²	11	92	9.8	1.2	0.6	0.3	0.2	1.9
Internal combustion engines ²	11	94	6.4	1.8	0.0	0.1	-0.1	0.1

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [November 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Nov. 2022 to Nov. 2023 ^P	June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Household furniture ²	12	1	-0.5	0.1	0.0	-0.2	-1.2	-0.1
Commercial furniture ²	12	2	2.5	0.7	-0.3	0.2	0.1	0.5
Floor coverings ²	12	3	0.3	-0.1	1.0	1.6	-0.9	0.0
Household appliances ²	12	4	2.8	-0.3	0.7	0.0	0.1	0.8
Home electronic equipment ²	12	5	1.2	0.0	0.0	0.0	0.0	0.2
Lawn and garden equipment excl. garden tractors ²	12	66	2.2	0.0	0.1	0.0	0.5	0.0
Passenger cars.....	14	1101	0.0	0.2	0.3	0.1	0.5	0.1
Light motor trucks.....	14	1105	2.0	0.3	0.1	0.4	-0.5	0.6
Heavy motor trucks ²	14	1106	1.9	0.4	0.0	0.0	0.0	0.1
Motor vehicles parts ²	14	12	1.6	0.3	0.0	0.1	0.1	0.1
Truck trailers ²	14	14	-2.7	-0.8	0.0	-0.2	-0.3	0.0
Travel trailers and campers ²	14	16	0.6	0.5	0.2	0.1	-0.2	0.0
Aircraft.....	14	21	3.6	0.1	0.0	0.1	0.1	0.1
Ships ²	14	31	2.7	0.7	0.0	0.0	0.3	0.0
Railroad equipment ²	14	4	1.3	0.3	0.0	0.0	0.0	0.0
Toys, games, and children's vehicles ²	15	11	1.4	0.0	0.0	0.0	0.0	0.0
Sporting and athletic goods ²	15	12	9.7	-0.1	2.2	1.1	0.0	2.5
Cigarettes ²	15	21	11.8	1.1	1.3	0.4	1.2	1.5
Mobile homes ²	15	5	-2.8	-0.1	0.0	-1.3	0.0	0.1
Medical, surgical & personal aid devices.....	15	6	2.7	-0.1	0.1	0.1	0.0	0.2
Jewelry, platinum and karat gold ²	15	9402	1.2	-0.5	-0.9	0.5	-2.3	2.4
Costume jewelry and novelties ²	15	9404	7.1	0.0	0.0	0.0	0.0	0.0
Final demand services.....	FD	42	2.1	0.7	0.2	0.2	0.0	0.0
Final demand trade services ³	FD	423	0.3	1.6	0.1	-0.1	-0.2	-0.2
Machinery and equipment parts and supplies wholesaling ²	57	1102	7.2	0.5	2.3	0.0	0.9	0.8
Machinery and vehicle wholesaling ²	57	1103	0.6	7.3	0.3	0.7	-1.8	0.6
Professional and commercial equipment wholesaling ²	57	1104	7.1	-1.6	0.8	0.6	0.9	-0.5
Furnishings wholesaling ²	57	2	-8.8	0.5	-1.1	2.1	-5.6	0.0
Chemicals and allied products wholesaling ²	57	5	-5.6	8.3	-2.8	-2.4	6.2	-4.6
Paper and plastics products wholesaling ²	57	6	-0.2	-1.8	2.7	-1.0	0.6	-0.5
Apparel wholesaling ²	57	7	11.4	-2.3	5.7	2.3	0.8	2.9
Food and alcohol wholesaling ²	57	8	1.3	3.8	-3.3	-1.3	0.3	1.9
Food and alcohol retailing.....	58	1	1.9	-2.2	0.4	-0.8	-0.6	-0.3
Health, beauty, and optical goods retailing ²	58	2	9.3	0.4	0.5	1.3	-2.2	1.7
Apparel, jewelry, footwear, and accessories retailing.....	58	3	3.6	-1.6	4.1	1.9	-6.2	3.1
Computer hardware, software, and supplies retailing ²	58	4	-19.5	-0.2	-0.3	1.4	-2.6	-0.1
TV, video, and photographic equipment and supplies retailing.....	58	5	13.9	-8.2	-6.5	5.9	6.5	16.4
Automobiles retailing (partial).....	58	6101	-30.8	-2.3	-0.4	-2.8	-5.4	-5.1
Automotive parts, including tires, retailing ²	58	6102	-1.6	0.6	0.7	-1.0	-1.4	2.1
RVs, trailers, and campers retailing ²	58	8	-1.0	1.7	-6.4	-4.8	-0.3	-1.5
Sporting goods, including boats, retailing.....	58	9	-7.3	-1.9	0.1	1.1	-0.3	-1.5
Lawn, garden, and farm equipment and supplies retailing ²	58	A	13.1	2.5	-0.1	1.8	-0.4	-0.4
Furniture retailing ²	58	B	3.8	-2.8	-2.4	-0.3	0.3	-5.3
Flooring and floor coverings retailing ²	58	C	-0.4	-0.4	-1.4	0.5	0.8	0.9
Hardware, building materials, and supplies retailing.....	58	D	3.4	6.8	2.3	4.0	0.8	-0.4
Major household appliances retailing.....	58	E	10.3	-0.1	7.4	3.5	-7.0	4.5
Fuels and lubricants retailing.....	58	F	-4.0	-8.3	4.6	-3.6	15.9	-3.8
Cleaning supplies and paper products retailing ²	58	G	15.4	-3.7	4.1	0.9	0.1	-2.0
Book retailing ²	58	H	-6.2	0.9	-0.6	0.7	0.5	-3.7
Final demand transportation and warehousing services.....	FD	422	-4.0	0.3	0.0	0.2	1.1	-0.5
Rail transportation of freight and mail ²	30	11	1.1	-0.1	0.4	0.7	1.2	0.4
Truck transportation of freight ²	30	12	-8.7	-0.7	0.6	1.6	0.7	-0.6
Air transportation of freight ²	30	14	-0.9	1.2	0.3	1.3	1.3	-0.1
Courier, messenger, and U.S. postal services.....	30	16	5.1	1.7	1.0	0.6	0.6	-0.3
Rail transportation of passengers.....	30	21	0.0	0.1	0.2	0.0	-0.1	0.1
Airline passenger services.....	30	22	1.9	1.7	-1.9	-3.1	2.5	-0.6
Final demand services less trade, transportation, and warehousing.....	FD	421	3.7	0.4	0.3	0.4	0.0	0.1
Sales of books.....	33	11	8.1	0.6	-0.1	0.8	0.8	1.3
Sales and subscriptions of periodicals and newspapers.....	33	12	0.9	0.2	0.9	0.1	-0.1	0.0
Application software publishing ²	34	2	0.0	-1.5	0.0	2.8	-0.4	-3.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	1.8	0.0	-0.4	-0.4	-0.3	-0.2
Residential wired telecommunication services ²	37	11	4.7	-0.1	0.5	0.5	0.1	0.1
Wireless telecommunication services.....	37	2	1.2	0.1	-0.6	0.2	0.1	0.2
Cable and satellite subscriber services.....	37	3	9.5	0.1	1.1	0.7	0.5	0.4
Internet access services ²	37	4	0.4	-0.8	-0.4	-1.4	0.0	1.0

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [November 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Nov. 2022 to Nov. 2023 ^P	June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Bundled wired telecommunications access services ²	37	5	0.9	-0.3	1.0	-2.9	0.2	-0.2
Consumer loans (partial).....	39	12	-3.4	-0.7	3.3	1.0	-0.6	0.4
Deposit services (partial) ²	39	2	31.1	-0.6	-2.5	5.2	0.9	5.3
Other credit intermediation, incl. trust services (partial) ²	39	3	2.0	0.0	2.5	0.0	0.0	-3.7
Securities brokerage, dealing, investment advice, and related services ² ...	40	1	8.7	1.7	0.9	-0.1	-1.9	0.4
Portfolio management ²	40	2	3.1	2.4	2.0	-0.5	-3.0	-1.8
Life insurance ²	41	1101	-1.7	-0.3	0.0	-0.4	0.0	0.0
Disability insurance, including accidental death ²	41	1102	0.0	0.0	0.0	0.0	0.0	0.0
Health and medical insurance.....	41	1103	3.2	0.0	0.5	0.2	0.2	0.2
Property and casualty insurance ²	41	1104	7.5	0.2	0.2	0.8	0.0	0.0
Annuities ²	41	2	0.4	0.3	0.0	0.0	-0.3	0.0
Residential property sales and leases, brokerage fees and commissions..	43	21	5.7	0.5	1.4	0.3	0.5	0.2
Passenger car rental.....	44	1	-6.0	0.5	0.8	1.0	1.8	-2.5
Legal services.....	45	1	6.0	0.7	0.2	0.3	0.9	0.3
Tax preparation and planning.....	45	2102	0.7	1.7	-2.6	2.2	-4.2	0.0
Architectural and engineering services.....	45	3	3.3	0.3	0.1	0.2	0.9	0.0
Management, scientific, and technical consulting services.....	45	4	3.0	-1.6	-2.3	5.1	-3.4	0.2
Arrangement of flights (partial).....	47	1	3.4	10.3	0.1	-0.3	-1.3	0.3
Arrangement of vehicle rentals and lodging ²	47	2	1.2	-1.3	0.3	-0.2	-0.7	-0.1
Arrangement of cruises and tours ²	47	3	8.9	1.6	0.9	-0.4	0.8	-0.7
Physician care.....	51	1101	0.4	0.2	0.0	0.0	0.2	0.0
Medical laboratory and diagnostic imaging care ²	51	1102	0.7	0.1	0.0	0.0	0.0	0.0
Home health and hospice care.....	51	1103	5.4	0.5	0.7	0.5	0.1	0.1
Hospital outpatient care ²	51	1104	3.5	1.4	0.0	0.2	0.4	-0.4
Dental care.....	51	1105	3.0	0.1	0.5	0.0	0.1	0.3
Hospital inpatient care.....	51	2101	4.6	0.0	-0.3	1.3	0.9	0.2
Nursing home care.....	51	2102	4.1	1.0	0.1	0.0	0.4	0.0
Traveler accommodation services.....	53	11	2.4	-0.7	-0.1	2.5	-3.1	4.0
Food and beverages for immediate consumption services (partial) ²	54	1	3.3	0.2	0.8	0.3	0.0	0.3
Motor vehicle repair and maintenance (partial).....	55	2	4.6	-0.3	3.7	-2.2	0.4	0.1
Membership dues and admissions and recreation facility use fees (partial) ²	56	1	5.6	0.5	-1.4	0.0	1.8	1.5
Recreational activity instruction fees (partial) ²	56	2	0.3	0.2	0.0	0.0	0.0	0.0
Gaming receipts (partial) ²	56	3	1.8	-1.0	-0.7	0.6	1.7	-0.2
Mining services ²	60	1	2.1	0.0	-0.3	0.8	-0.9	1.5
Final demand construction.....	FD	43	0.4	-1.2	0.1	0.1	-0.4	-0.2
New warehouse building construction ²	80	1101	-1.5	-0.7	0.1	0.0	-0.1	-0.2
New school building construction ²	80	1102	0.0	-1.1	0.0	0.1	-0.3	0.0
New office building construction ²	80	1103	1.8	-1.9	0.2	-0.1	-1.1	-0.1
New industrial building construction ²	80	1104	0.3	-1.5	0.1	0.7	0.0	-0.2
New health care building construction ²	80	1105	0.3	-0.8	0.1	0.0	0.0	-0.5
Intermediate Demand by Commodity Type								
Processed goods for intermediate demand.....	ID6	1	-4.1	-0.3	2.1	0.5	-1.0	0.0
Processed foods and feeds.....	ID6	9112	-5.0	1.2	0.8	0.7	-0.3	-0.6
Meats.....	02	21	9.1	4.8	-2.4	1.5	1.1	0.4
Processed poultry.....	02	22	-19.6	-2.9	1.9	6.2	0.6	-9.4
Dairy products.....	02	3	-6.2	-1.4	2.2	1.2	1.3	-0.4
Processed fruits and vegetables ²	02	4	9.6	0.5	0.4	2.0	0.7	0.0
Refined sugar and byproducts ²	02	53	10.2	0.8	1.1	-2.3	0.9	3.3
Fats and oils ²	02	7	-18.5	3.2	4.9	-0.7	0.3	0.4
Prepared animal feeds.....	02	9	-5.7	1.7	0.3	0.6	-1.1	-0.2
Processed materials less foods and feeds.....	ID6	9111	-4.0	-0.4	2.3	0.5	-1.1	0.0
Synthetic fibers ²	03	1	0.4	1.3	-2.4	2.4	2.3	-0.6
Processed yarns and threads ²	03	2	-7.6	0.3	-0.2	0.3	-0.6	0.4
Finished fabrics ²	03	4	-1.6	-0.2	-0.1	0.0	-0.1	-0.1
Liquefied petroleum gas ²	05	32	-27.3	25.4	4.7	7.5	-6.8	-6.1
Commercial electric power.....	05	42	6.6	-0.2	0.2	0.7	-0.4	2.2
Industrial electric power.....	05	43	9.3	-0.7	0.3	0.2	0.1	2.6
Commercial natural gas.....	05	52	-13.4	3.4	-0.1	-1.8	2.2	5.1
Industrial natural gas.....	05	53	-14.2	9.6	0.3	-2.4	-6.4	8.6
Natural gas to electric utilities.....	05	54	-9.5	4.8	0.1	-1.9	-0.8	4.3
Gasoline.....	05	71	-12.8	0.3	18.7	5.1	-15.5	-4.1
Jet fuel ²	05	7203	-13.0	4.6	22.7	7.1	-1.9	-3.8
No. 2 diesel fuel.....	05	7303	-29.7	-4.8	39.2	2.6	-11.7	2.6
Residual fuels ²	05	74	1.3	6.1	7.3	5.7	4.0	-4.7

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [November 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Nov. 2022 to Nov. 2023 ^P	June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Finished lubricants ²	05	76	-1.1	-0.3	-0.1	-1.1	-0.2	0.2
Lubricating oil base stocks ²	05	78	-24.6	-1.7	1.9	-0.1	6.8	-3.4
Asphalt.....	05	8102	-16.3	-5.8	0.0	5.0	2.4	2.2
Basic inorganic chemicals ²	06	13	-9.8	-3.6	-1.5	0.2	-2.1	-0.4
Basic organic chemicals.....	06	14	-9.0	-2.1	0.2	1.4	2.8	-3.5
Prepared paint ²	06	21	-0.4	-0.5	0.0	-0.2	-0.1	0.0
Paint materials ²	06	22	-2.7	-3.8	5.0	-0.8	-4.1	0.0
Medicinal and botanical chemicals ²	06	31	1.1	0.0	-0.2	0.0	1.0	0.1
Biological products, including diagnostics.....	06	37	5.0	1.1	-0.1	0.3	0.2	0.3
Fats and oils, inedible ²	06	4	-23.0	7.1	3.4	0.0	-6.0	-5.6
Nitrogenates.....	06	5201	-39.9	2.7	2.2	-0.5	5.5	4.1
Phosphates.....	06	5202	-22.9	-18.7	7.4	1.5	6.2	1.4
Other agricultural chemicals ²	06	53	-17.4	-1.3	-1.1	-4.3	0.3	-0.1
Plastic resins and materials.....	06	6	-7.4	-4.3	-1.7	0.4	-2.5	1.6
Industrial gases ²	06	7903	4.6	1.5	-1.5	1.5	0.8	-1.1
Adhesives and sealants ²	06	7904	2.0	-0.1	-0.3	0.1	0.1	0.0
Synthetic rubber ²	07	1102	-10.6	-5.6	0.1	1.1	2.4	-0.3
Tires ²	07	1201	2.7	-0.1	0.0	-0.2	0.0	-0.1
Plastic construction products ²	07	21	-3.7	-0.1	-0.1	0.2	-0.4	0.1
Unsupported plastic film, sheet, other shapes ²	07	22	-7.8	-1.4	-0.8	-1.5	0.4	0.3
Parts for manufacturing from plastics ²	07	26	-4.0	-0.1	-0.2	-0.2	-0.2	-0.5
Plastic packaging products ²	07	2A	-4.5	-1.0	-0.2	0.0	-0.3	0.4
Softwood lumber.....	08	11	-19.7	8.6	-5.5	1.3	-2.9	-5.8
Hardwood lumber ²	08	12	-1.4	7.6	-8.4	3.5	-4.9	1.4
Millwork.....	08	2	-3.7	-0.1	-0.9	0.3	0.3	0.2
Plywood ²	08	3	-4.5	-0.8	1.4	1.4	1.7	-0.3
Paper ²	09	13	-1.2	-0.8	-0.6	0.7	-0.5	-0.4
Paperboard ²	09	14	-6.9	-2.1	-0.3	0.5	0.0	0.3
Paper boxes and containers ²	09	1503	-3.4	-0.4	-0.5	-0.2	-0.1	-0.2
Building paper and board ²	09	2	-4.6	6.5	13.5	-0.2	-17.9	0.5
Commercial printing ²	09	47	2.8	0.0	0.2	0.2	0.0	0.1
Foundry and forge shop products ²	10	15	1.8	-0.7	0.5	-0.1	-0.6	-0.2
Steel mill products ²	10	17	-8.4	-4.7	-2.0	-3.5	-2.5	-1.5
Primary nonferrous metals ²	10	22	3.3	2.0	-3.9	1.9	-2.0	0.9
Secondary nonferrous metals ²	10	24	-4.0	-1.2	-1.4	-0.1	-1.5	0.4
Aluminum mill shapes ²	10	2501	-0.3	-1.3	-0.3	-0.9	-0.4	-0.2
Copper and brass mill shapes ²	10	2502	-1.9	0.1	0.1	-0.1	-1.8	-0.2
Nonferrous wire and cable ²	10	26	-3.5	1.4	0.5	-1.5	-0.4	0.3
Nonferrous foundry shop products.....	10	28	1.8	0.2	0.3	-0.2	0.6	-0.4
Metal containers ²	10	3	-5.2	0.0	-1.6	-0.2	-0.9	-0.5
Hardware ²	10	4	2.2	0.1	0.0	0.0	0.0	0.1
Plumbing fixtures and brass fittings.....	10	5	1.3	0.6	0.3	0.0	0.1	0.6
Heating equipment ²	10	6	2.4	0.0	0.1	-0.2	0.7	0.0
Fabricated structural metal products.....	10	7	0.7	0.4	0.1	0.4	0.8	0.3
Bolts, nuts, screws, rivets, and washers ²	10	81	6.3	0.2	0.2	0.0	0.0	0.8
Lighting fixtures ²	10	83	3.1	0.3	-0.1	0.2	0.0	0.1
Fabricated ferrous wire products ²	10	88	-8.5	-1.3	-0.6	-0.3	-1.4	0.2
Other miscellaneous metal products ²	10	89	1.4	0.2	-0.4	0.0	0.2	0.3
Fluid power equipment.....	11	43	11.3	0.4	-0.3	0.8	2.3	-1.4
Mechanical power transmission equipment ²	11	45	4.1	0.0	0.2	0.3	0.4	0.7
Air conditioning and refrigeration equipment.....	11	48	4.9	0.5	0.5	0.2	0.4	0.8
Metal valves, except fluid power.....	11	4902	4.4	0.1	0.6	0.2	1.1	0.3
Ball and roller bearings ²	11	4905	2.0	0.0	-0.1	0.1	0.0	-0.1
Wiring devices ²	11	71	5.0	-0.8	0.6	0.0	0.4	0.0
Motors, generators, motor generator sets ²	11	73	5.1	1.4	1.0	0.1	0.1	-0.3
Switchgear, switchboard, and industrial controls equip. ²	11	75	7.5	0.7	0.4	0.1	0.4	1.0
Electronic components and accessories.....	11	78	-0.7	0.3	0.3	-0.1	0.0	0.1
Internal combustion engines ²	11	94	6.4	1.8	0.0	0.1	-0.1	0.1
Machine shop products ²	11	95	1.3	0.1	0.0	0.0	-0.2	0.0
Flat glass ²	13	11	1.1	-0.7	-0.8	0.3	0.2	0.0
Cement.....	13	22	8.3	0.5	0.3	1.0	-0.4	0.7
Concrete products.....	13	3	8.3	0.1	0.9	1.1	0.7	0.3
Asphalt felts and coatings ²	13	6	2.7	0.9	-1.0	0.6	0.6	-0.3
Paving mixtures and blocks.....	13	94	0.7	-0.9	0.8	0.9	1.0	1.5
Motor vehicle parts ²	14	12	1.6	0.3	0.0	0.1	0.1	0.1
Aircraft engines and engine parts.....	14	23	3.1	0.0	0.3	0.0	0.2	0.9

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [November 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Nov. 2022 to Nov. 2023 ^P	June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	4.3	0.1	0.2	-0.1	0.0	0.1
Medical, surgical, and personal aid devices.....	15	6	2.7	-0.1	0.1	0.1	0.0	0.2
Unprocessed goods for intermediate demand.....	ID6	2	-13.1	2.4	2.2	3.3	-1.8	-1.4
Unprocessed foodstuffs and feedstuffs.....	ID6	21	-14.8	-0.9	0.1	2.3	-3.1	-1.0
Wheat ²	01	21	-31.5	1.7	-7.9	-5.2	-6.0	-1.2
Corn.....	01	2202	-32.7	-10.7	-2.0	-6.2	-2.7	-3.5
Slaughter cattle.....	01	31	17.9	2.4	1.6	1.7	-0.6	-7.2
Slaughter hogs.....	01	32	-24.9	8.5	-2.4	-0.5	-9.0	-4.0
Slaughter chickens.....	01	4102	-10.0	-7.1	0.8	13.5	-3.8	-2.4
Slaughter turkeys.....	01	42	-33.5	-8.3	-10.4	-4.0	-13.8	7.0
Raw milk.....	01	6	-14.4	-0.4	14.0	5.4	-1.5	-1.2
Hay and hayseeds ²	01	81	-8.7	0.3	-18.2	5.4	-4.7	7.1
Oilseeds.....	01	8301	-8.1	9.0	-4.3	4.3	-4.7	5.0
Raw cane sugar and byproducts ²	02	5201	14.4	-1.8	0.6	-0.3	4.1	-0.7
Unprocessed nonfood materials.....	ID6	22	-12.2	4.5	3.5	3.9	-1.0	-1.7
Raw cotton ²	01	51	-14.8	-1.1	4.6	1.6	-1.5	-6.2
Hides and skins.....	04	1	-7.2	-6.0	1.5	-0.2	-8.6	2.6
Coal.....	05	1	-9.1	1.1	1.5	-3.4	2.3	-1.5
Natural gas ²	05	31	-40.3	23.6	-1.1	-2.7	5.8	24.1
Crude petroleum ²	05	61	-10.6	8.5	8.1	10.3	-3.4	-9.5
Logs, bolts, timber, pulpwood, and woodchips ²	08	5	-3.9	-0.7	0.4	0.1	0.1	-1.3
Recyclable paper ²	09	12	74.7	-0.2	2.2	9.6	11.4	7.9
Iron ores ²	10	11	-6.1	-0.7	1.1	0.5	-1.1	-1.9
Iron and steel scrap.....	10	12	14.1	2.6	2.9	0.8	0.8	7.7
Nonferrous metal ores ²	10	21	0.3	-4.2	-3.0	0.5	1.8	-0.5
Copper base scrap ²	10	2301	-0.3	-0.1	-0.7	-0.6	-3.4	1.4
Aluminum base scrap.....	10	2302	12.1	-0.2	0.3	0.1	1.5	3.6
Construction sand, gravel, and crushed stone.....	13	21	8.4	-0.3	1.2	0.5	0.3	0.4
Services for intermediate demand.....	ID6	3	2.9	0.6	-0.1	0.2	0.1	0.2
Trade services for intermediate demand ³	ID6	33	2.5	2.1	-0.5	-0.6	2.1	-0.1
Machinery and equipment parts and supplies wholesaling ²	57	1102	7.2	0.5	2.3	0.0	0.9	0.8
Building materials, paint, and hardware wholesaling.....	57	3	-6.8	-1.6	1.3	1.2	0.3	-1.0
Metals, minerals, and ores wholesaling ²	57	4	6.8	-3.3	-4.4	-3.1	9.8	-1.2
Chemicals and allied products wholesaling ²	57	5	-5.6	8.3	-2.8	-2.4	6.2	-4.6
Paper and plastics products wholesaling ²	57	6	-0.2	-1.8	2.7	-1.0	0.6	-0.5
Food wholesaling ²	57	8101	1.0	4.3	-3.8	-1.5	0.1	2.1
Automotive parts, including tires, retailing ²	58	6102	-1.6	0.6	0.7	-1.0	-1.4	2.1
Hardware, building material, and supplies retailing.....	58	D	3.4	6.8	2.3	4.0	0.8	-0.4
Transportation and warehousing services for intermediate demand.....	ID6	32	-0.8	0.9	-0.6	0.5	0.7	-0.2
Rail transportation of freight and mail ²	30	11	1.1	-0.1	0.4	0.7	1.2	0.4
Truck transportation of freight ²	30	12	-8.7	-0.7	0.6	1.6	0.7	-0.6
Water transportation of freight ²	30	13	-0.4	2.5	2.5	-0.8	-2.3	0.4
Air transportation of freight ²	30	14	-0.9	1.2	0.3	1.3	1.3	-0.1
U.S. Postal Service ²	30	1601	8.0	3.8	0.0	0.0	0.0	0.0
Courier and messenger services, except air mail.....	30	1602	4.1	0.6	1.1	0.7	0.4	0.0
Air mail and package delivery services, excluding by USPS.....	30	1603	1.9	0.6	2.2	1.3	1.5	-1.0
Pipeline transportation ²	30	17	1.6	3.8	0.1	-0.2	-0.2	-0.1
Transportation of passengers (partial).....	30	2	1.9	1.7	-1.9	-3.0	2.5	-0.6
Services related to water transportation.....	31	1	2.7	0.1	0.5	0.3	0.4	0.4
Arrangement of freight and cargo ²	31	31	-22.9	-2.1	-12.8	3.3	2.0	-0.5
Warehousing, storage, and related services ²	32	1	3.8	1.5	-1.1	1.8	-0.4	-0.6
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	4.0	0.1	0.1	0.3	-0.5	0.4
Network compensation from broadcast TV, cable TV, radio ²	35	-	0.7	0.0	0.2	0.0	0.0	0.0
Advertising space sales in periodicals and newspapers ²	36	11	1.2	0.0	-0.5	-0.4	-0.4	-0.2
Advertising space sales in directories and mail lists ²	36	12	5.4	0.0	0.0	0.0	0.0	0.0
Television advertising time sales.....	36	2	-26.2	-1.1	-8.0	-4.2	0.5	6.5
Radio advertising time sales.....	36	3	-4.3	-7.2	4.6	-2.3	-0.8	5.4
Internet advertising sales ²	36	6	-	-4.9	0.0	0.0	0.0	0.0
Business wired telecommunication services ²	37	12	3.4	1.1	1.0	0.2	-0.5	0.2
Wireless telecommunication services.....	37	2	1.2	0.1	-0.6	0.2	0.1	0.2
Cable and satellite subscriber services.....	37	3	9.5	0.1	1.1	0.7	0.5	0.4
Bundled wired telecommunication access services ²	37	5	0.9	-0.3	1.0	-2.9	0.2	-0.2
Data processing and related services ²	38	1	2.3	0.3	0.1	-0.2	0.2	0.2
Business loans (partial).....	39	11	12.7	-1.8	-1.7	-2.7	0.9	-0.8

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [November 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Nov. 2022 to Nov. 2023 ^P	June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Deposit services (partial) ²	39	2	31.1	-0.6	-2.5	5.2	0.9	5.3
Other credit intermediation, incl. trust services (partial) ²	39	3	2.0	0.0	2.5	0.0	0.0	-3.7
Securities brokerage, dealing, investment advice, and related services ²	40	1	8.7	1.7	0.9	-0.1	-1.9	0.4
Portfolio management ²	40	2	3.1	2.4	2.0	-0.5	-3.0	-1.8
Investment banking ²	40	3	6.9	0.5	1.9	2.9	-0.1	-1.1
Life insurance ²	41	1101	-1.7	-0.3	0.0	-0.4	0.0	0.0
Health and medical insurance.....	41	1103	3.2	0.0	0.5	0.2	0.2	0.2
Property and casualty insurance ²	41	1104	7.5	0.2	0.2	0.8	0.0	0.0
Annuities ²	41	2	0.4	0.3	0.0	0.0	-0.3	0.0
Commissions from sales of insurance ²	42	1	0.6	-0.4	0.0	0.0	0.0	0.0
Nonresidential real estate rents ²	43	11	3.4	-0.7	2.9	2.0	-3.0	1.3
Nonresidential property sales and leases ²	43	12	-2.8	-0.7	0.4	0.0	-0.3	-0.2
Residential property management fees ²	43	22	1.1	0.8	0.1	-0.5	-1.0	1.5
Passenger car rental.....	44	1	-6.0	0.5	0.8	1.0	1.8	-2.5
Truck, utility trailer, and RV rental and leasing ²	44	2	-0.3	-0.9	-0.6	0.9	-0.6	0.3
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	3.3	0.1	-0.2	0.2	0.2	-0.1
Legal services.....	45	1	6.0	0.7	0.2	0.3	0.9	0.3
Accounting services (partial).....	45	2	6.7	2.6	0.2	1.3	-2.3	-0.1
Architectural and engineering services.....	45	3	3.3	0.3	0.1	0.2	0.9	0.0
Management, scientific, and technical consulting services.....	45	4	3.0	-1.6	-2.3	5.1	-3.4	0.2
Advertising and related services (partial) ²	45	5	0.5	0.0	-0.2	0.0	0.0	0.0
Permanent placement services ²	46	1	1.7	2.2	-1.1	0.4	-0.4	0.8
Executive search services ²	46	2	7.6	0.3	2.8	1.6	1.0	1.5
Staffing services.....	46	3	0.3	-0.1	-0.3	-0.7	0.4	0.2
Security guard services ²	48	1	7.2	0.2	2.6	-0.1	0.8	-0.2
Janitorial services ²	49	1	-0.1	-0.1	0.0	-2.6	-0.1	0.2
Waste collection.....	50	1	9.8	-0.1	1.1	0.9	-0.5	1.0
Traveler accommodation services.....	53	11	2.4	-0.7	-0.1	2.5	-3.1	4.0
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	5.0	0.9	0.0	1.9	-0.6	0.6
Aircraft repair and maintenance.....	55	4	8.6	0.5	0.3	3.5	0.4	0.2
Metal treatment services ²	59	1	4.7	0.9	0.2	-0.4	0.7	-0.3
Construction for intermediate demand.....	ID6	4	3.6	0.1	0.0	0.0	0.2	0.1
Maintenance and repair of non-residential buildings (partial) ²	80	2	3.6	0.1	0.0	0.0	0.2	0.1
Intermediate Demand by Production Flow								
Stage 4 intermediate demand.....	ID5	4	1.5	0.3	0.5	0.2	-0.3	0.1
Stage 4 intermediate demand goods.....	ID5	9411	-0.9	-0.1	0.7	0.3	-0.5	0.1
Grains.....	01	2	-32.0	-8.7	-2.7	-6.3	-3.0	-3.3
Meats.....	02	21	9.1	4.8	-2.4	1.5	1.1	0.4
Unprocessed and packaged fish.....	02	23	-6.4	-1.7	-0.7	-1.7	-0.9	0.6
Dairy products.....	02	3	-6.2	-1.4	2.2	1.2	1.3	-0.4
Commercial electric power.....	05	42	6.6	-0.2	0.2	0.7	-0.4	2.2
Industrial electric power.....	05	43	9.3	-0.7	0.3	0.2	0.1	2.6
Gasoline.....	05	71	-12.8	0.3	18.7	5.1	-15.5	-4.1
No. 2 diesel fuel.....	05	7303	-29.7	-4.8	39.2	2.6	-11.7	2.6
Basic organic chemicals.....	06	14	-9.0	-2.1	0.2	1.4	2.8	-3.5
Prepared paint ²	06	21	-0.4	-0.5	0.0	-0.2	-0.1	0.0
Medicinal and botanical chemicals ²	06	31	1.1	0.0	-0.2	0.0	1.0	0.1
Biological products, including diagnostics.....	06	37	5.0	1.1	-0.1	0.3	0.2	0.3
Pharmaceutical preparations.....	06	38	2.5	0.3	0.1	0.2	0.2	0.1
Plastic construction products ²	07	21	-3.7	-0.1	-0.1	0.2	-0.4	0.1
Unsupported plastic film, sheet, and other shapes ²	07	22	-7.8	-1.4	-0.8	-1.5	0.4	0.3
Parts for manufacturing from plastics ²	07	26	-4.0	-0.1	-0.2	-0.2	-0.2	-0.5
Plastic packaging products ²	07	2A	-4.5	-1.0	-0.2	0.0	-0.3	0.4
Lumber.....	08	1	-13.1	8.2	-6.7	2.1	-3.7	-3.0
Millwork.....	08	2	-3.7	-0.1	-0.9	0.3	0.3	0.2
Paper boxes and containers ²	09	1503	-3.4	-0.4	-0.5	-0.2	-0.1	-0.2
Commercial printing ²	09	47	2.8	0.0	0.2	0.2	0.0	0.1
Steel mill products ²	10	17	-8.4	-4.7	-2.0	-3.5	-2.5	-1.5
Nonferrous wire and cable ²	10	26	-3.5	1.4	0.5	-1.5	-0.4	0.3
Fabricated structural metal products.....	10	7	0.7	0.4	0.1	0.4	0.8	0.3
Other miscellaneous metal products ²	10	89	1.4	0.2	-0.4	0.0	0.2	0.3
Air conditioning and refrigeration equipment.....	11	48	4.9	0.5	0.5	0.2	0.4	0.8
Wiring devices ²	11	71	5.0	-0.8	0.6	0.0	0.4	0.0

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [November 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Nov. 2022 to Nov. 2023 ^P	June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Electronic components and accessories.....	11	78	-0.7	0.3	0.3	-0.1	0.0	0.1
Miscellaneous electrical machinery and equipment ²	11	79	1.2	0.6	0.0	0.0	-0.1	-0.1
Internal combustion engines ²	11	94	6.4	1.8	0.0	0.1	-0.1	0.1
Machine shop products ²	11	95	1.3	0.1	0.0	0.0	-0.2	0.0
Concrete ingredients and related products.....	13	2	8.4	-0.1	0.9	0.6	0.1	0.5
Concrete products.....	13	3	8.3	0.1	0.9	1.1	0.7	0.3
Prepared asphalt, tar roofing and siding products ²	13	61	2.8	1.1	-1.2	0.7	0.7	-0.3
Paving mixtures and blocks.....	13	94	0.7	-0.9	0.8	0.9	1.0	1.5
Motor vehicle parts ²	14	12	1.6	0.3	0.0	0.1	0.1	0.1
Aircraft engines and engine parts.....	14	23	3.1	0.0	0.3	0.0	0.2	0.9
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	4.3	0.1	0.2	-0.1	0.0	0.1
Medical, surgical and personal aid devices.....	15	6	2.7	-0.1	0.1	0.1	0.0	0.2
Stage 4 intermediate demand services.....	ID5	9412	3.7	0.7	0.4	0.2	-0.1	0.2
Truck transportation of freight ²	30	12	-8.7	-0.7	0.6	1.6	0.7	-0.6
Courier, messenger, and U.S. postal services.....	30	16	5.1	1.7	1.0	0.6	0.6	-0.3
Airline passenger services.....	30	22	1.9	1.7	-1.9	-3.1	2.5	-0.6
Warehousing, storage, and related services ²	32	1	3.8	1.5	-1.1	1.8	-0.4	-0.6
Advertising space sales in periodicals and newspapers ²	36	11	1.2	0.0	-0.5	-0.4	-0.4	-0.2
Data processing and related services ²	38	1	2.3	0.3	0.1	-0.2	0.2	0.2
Business loans (partial).....	39	11	12.7	-1.8	-1.7	-2.7	0.9	-0.8
Deposit services (partial) ²	39	2	31.1	-0.6	-2.5	5.2	0.9	5.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	8.7	1.7	0.9	-0.1	-1.9	0.4
Portfolio management ²	40	2	3.1	2.4	2.0	-0.5	-3.0	-1.8
Investment banking ²	40	3	6.9	0.5	1.9	2.9	-0.1	-1.1
Insurance.....	41	11	4.2	-0.2	0.3	0.4	0.2	0.1
Annuities ²	41	2	0.4	0.3	0.0	0.0	-0.3	0.0
Nonresidential real estate rents ²	43	11	3.4	-0.7	2.9	2.0	-3.0	1.3
Nonresidential property sales and leases ²	43	12	-2.8	-0.7	0.4	0.0	-0.3	-0.2
Nonresidential property management fees ²	43	13	8.0	2.7	0.8	0.1	1.5	0.3
Residential property management fees ²	43	22	1.1	0.8	0.1	-0.5	-1.0	1.5
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	3.3	0.1	-0.2	0.2	0.2	-0.1
Legal services.....	45	1	6.0	0.7	0.2	0.3	0.9	0.3
Advertising agency services ²	45	51	0.5	0.0	-0.2	0.0	0.0	0.0
Accounting services (partial).....	45	2	6.7	2.6	0.2	1.3	-2.3	-0.1
Architectural and engineering services.....	45	3	3.3	0.3	0.1	0.2	0.9	0.0
Management, scientific, and technical consulting services.....	45	4	3.0	-1.6	-2.3	5.1	-3.4	0.2
Staffing services.....	46	3	0.3	-0.1	-0.3	-0.7	0.4	0.2
Janitorial services ²	49	1	-0.1	-0.1	0.0	-2.6	-0.1	0.2
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	5.0	0.9	0.0	1.9	-0.6	0.6
Machinery and equipment parts and supplies wholesaling ²	57	1102	7.2	0.5	2.3	0.0	0.9	0.8
Building materials, paint, and hardware wholesaling.....	57	3	-6.8	-1.6	1.3	1.2	0.3	-1.0
Metals, minerals, and ores wholesaling ²	57	4	6.8	-3.3	-4.4	-3.1	9.8	-1.2
Chemicals and allied products wholesaling ²	57	5	-5.6	8.3	-2.8	-2.4	6.2	-4.6
Paper and plastics products wholesaling ²	57	6	-0.2	-1.8	2.7	-1.0	0.6	-0.5
Food and alcohol wholesaling ²	57	8	1.3	3.8	-3.3	-1.3	0.3	1.9
Hardware and building materials and supplies retailing.....	58	D	3.4	6.8	2.3	4.0	0.8	-0.4
Metal treatment services ²	59	1	4.7	0.9	0.2	-0.4	0.7	-0.3
Stage 3 intermediate demand.....	ID5	3	-3.7	-0.4	1.1	0.6	-0.5	-0.1
Stage 3 intermediate demand goods.....	ID5	9311	-9.5	-1.4	3.3	1.2	-1.9	-0.6
Slaughter cattle.....	01	31	17.9	2.4	1.6	1.7	-0.6	-7.2
Slaughter hogs.....	01	32	-24.9	8.5	-2.4	-0.5	-9.0	-4.0
Slaughter poultry.....	01	4	-13.7	-7.2	-0.9	10.9	-4.9	-1.4
Raw milk.....	01	6	-14.4	-0.4	14.0	5.4	-1.5	-1.2
Commercial electric power.....	05	42	6.6	-0.2	0.2	0.7	-0.4	2.2
Industrial electric power.....	05	43	9.3	-0.7	0.3	0.2	0.1	2.6
Gasoline.....	05	71	-12.8	0.3	18.7	5.1	-15.5	-4.1
Jet fuel ²	05	7203	-13.0	4.6	22.7	7.1	-1.9	-3.8
No. 2 diesel fuel.....	05	7303	-29.7	-4.8	39.2	2.6	-11.7	2.6
Finished lubricants ²	05	76	-1.1	-0.3	-0.1	-1.1	-0.2	0.2
Lubricating oil base stocks ²	05	78	-24.6	-1.7	1.9	-0.1	6.8	-3.4
Asphalt.....	05	8102	-16.3	-5.8	0.0	5.0	2.4	2.2
Basic inorganic chemicals ²	06	13	-9.8	-3.6	-1.5	0.2	-2.1	-0.4
Basic organic chemicals.....	06	14	-9.0	-2.1	0.2	1.4	2.8	-3.5
Paints and allied products ²	06	2	-0.9	-1.1	0.9	-0.5	-1.0	0.1

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [November 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Nov. 2022 to Nov. 2023 ^P	June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Agricultural chemicals and chemical products.....	06	5	-23.7	-4.2	2.5	-1.0	1.7	0.7
Plastic resins and materials.....	06	6	-7.4	-4.3	-1.7	0.4	-2.5	1.6
Synthetic rubber ²	07	1102	-10.6	-5.6	0.1	1.1	2.4	-0.3
Unsupported plastic film, sheet, and other shapes ²	07	22	-7.8	-1.4	-0.8	-1.5	0.4	0.3
Paper ²	09	13	-1.2	-0.8	-0.6	0.7	-0.5	-0.4
Paperboard ²	09	14	-6.9	-2.1	-0.3	0.5	0.0	0.3
Converted paper and paperboard products ²	09	15	-1.5	-0.2	-0.5	0.0	-0.3	-0.6
Commercial printing ²	09	47	2.8	0.0	0.2	0.2	0.0	0.1
Foundry and forge shop products ²	10	15	1.8	-0.7	0.5	-0.1	-0.6	-0.2
Steel mill products ²	10	17	-8.4	-4.7	-2.0	-3.5	-2.5	-1.5
Nonferrous mill shapes ²	10	25	-0.3	-0.9	-0.2	-0.5	-0.8	-0.2
Nonferrous foundry shop products.....	10	28	1.8	0.2	0.3	-0.2	0.6	-0.4
Metal containers ²	10	3	-5.2	0.0	-1.6	-0.2	-0.9	-0.5
Structural, architectural, and pre-engineered metal products.....	10	74	-0.2	0.3	-0.3	0.3	1.1	0.7
Bolts, nuts, screws, rivets, and washers ²	10	81	6.3	0.2	0.2	0.0	0.0	0.8
Other miscellaneous metal products ²	10	89	1.4	0.2	-0.4	0.0	0.2	0.3
General purpose machinery and equipment.....	11	4	5.6	0.3	0.4	0.6	0.6	0.2
Electrical machinery and equipment.....	11	7	2.0	0.3	0.2	0.0	0.1	0.2
Construction sand, gravel, and crushed stone.....	13	21	8.4	-0.3	1.2	0.5	0.3	0.4
Cement.....	13	22	8.3	0.5	0.3	1.0	-0.4	0.7
Motor vehicle parts ²	14	12	1.6	0.3	0.0	0.1	0.1	0.1
Aircraft and aircraft equipment.....	14	2	3.6	0.1	0.1	0.1	0.1	0.3
Stage 3 intermediate demand services.....	ID5	9312	1.9	0.5	-0.6	0.0	0.6	0.3
Rail transportation of freight and mail ²	30	11	1.1	-0.1	0.4	0.7	1.2	0.4
Courier, messenger, and U.S. postal services.....	30	16	5.1	1.7	1.0	0.6	0.6	-0.3
Arrangement of freight and cargo ²	31	31	-22.9	-2.1	-12.8	3.3	2.0	-0.5
Freight forwarding ²	31	3201	2.1	0.0	0.0	0.0	0.0	0.0
Warehousing, storage, and related services ²	32	1	3.8	1.5	-1.1	1.8	-0.4	-0.6
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	1.8	0.0	-0.4	-0.4	-0.3	-0.2
Wired telephone services ²	37	1	3.5	0.5	0.7	0.3	-0.2	0.1
Bundled wired telecommunications access services ²	37	5	0.9	-0.3	1.0	-2.9	0.2	-0.2
Data processing and related services ²	38	1	2.3	0.3	0.1	-0.2	0.2	0.2
Business loans (partial).....	39	11	12.7	-1.8	-1.7	-2.7	0.9	-0.8
Deposit services (partial) ²	39	2	31.1	-0.6	-2.5	5.2	0.9	5.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	8.7	1.7	0.9	-0.1	-1.9	0.4
Insurance.....	41	11	4.2	-0.2	0.3	0.4	0.2	0.1
Nonresidential real estate rents ²	43	11	3.4	-0.7	2.9	2.0	-3.0	1.3
Legal services.....	45	1	6.0	0.7	0.2	0.3	0.9	0.3
Accounting services (partial).....	45	2	6.7	2.6	0.2	1.3	-2.3	-0.1
Architectural and engineering services.....	45	3	3.3	0.3	0.1	0.2	0.9	0.0
Management, scientific, and technical consulting services.....	45	4	3.0	-1.6	-2.3	5.1	-3.4	0.2
Advertising agency services ²	45	51	0.5	0.0	-0.2	0.0	0.0	0.0
Staffing services.....	46	3	0.3	-0.1	-0.3	-0.7	0.4	0.2
Aircraft repair maintenance.....	55	4	8.6	0.5	0.3	3.5	0.4	0.2
Machinery and equipment parts and supplies wholesaling ²	57	1102	7.2	0.5	2.3	0.0	0.9	0.8
Building materials, paint, and hardware wholesaling.....	57	3	-6.8	-1.6	1.3	1.2	0.3	-1.0
Metals, minerals, and ores wholesaling ²	57	4	6.8	-3.3	-4.4	-3.1	9.8	-1.2
Chemicals and allied products wholesaling ²	57	5	-5.6	8.3	-2.8	-2.4	6.2	-4.6
Paper and plastics products wholesaling ²	57	6	-0.2	-1.8	2.7	-1.0	0.6	-0.5
Food wholesaling ²	57	8101	1.0	4.3	-3.8	-1.5	0.1	2.1
Metal treatment services ²	59	1	4.7	0.9	0.2	-0.4	0.7	-0.3
Stage 2 intermediate demand.....	ID5	2	-2.4	1.9	0.6	1.1	-0.2	-0.5
Stage 2 intermediate demand goods.....	ID5	9211	-9.3	4.0	2.2	3.1	-1.0	-1.4
Corn.....	01	2202	-32.7	-10.7	-2.0	-6.2	-2.7	-3.5
Oilseeds.....	01	83	-8.1	9.0	-4.3	4.3	-4.7	5.0
Prepared animal feeds.....	02	9	-5.7	1.7	0.3	0.6	-1.1	-0.2
Coal.....	05	1	-9.1	1.1	1.5	-3.4	2.3	-1.5
Natural gas ²	05	31	-40.3	23.6	-1.1	-2.7	5.8	24.1
Liquefied petroleum gas ²	05	32	-27.3	25.4	4.7	7.5	-6.8	-6.1
Crude petroleum ²	05	61	-10.6	8.5	8.1	10.3	-3.4	-9.5
No. 2 diesel fuel.....	05	7303	-29.7	-4.8	39.2	2.6	-11.7	2.6
Industrial chemicals.....	06	1	-9.2	-2.3	-0.1	1.2	1.9	-3.0
Plastic resins and materials.....	06	6	-7.4	-4.3	-1.7	0.4	-2.5	1.6
Plastic products ²	07	2	-3.3	-0.4	-0.2	-0.3	-0.2	0.0
Logs, bolts, timber, pulpwood, and wood chips ²	08	5	-3.9	-0.7	0.4	0.1	0.1	-1.3

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [November 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Nov. 2022 to Nov. 2023 ^P	June to July	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Paper ²	09	13	-1.2	-0.8	-0.6	0.7	-0.5	-0.4
Paperboard, excluding corrugated paperboard ²	09	1411	-6.0	-2.0	-0.6	0.9	-0.2	0.4
Commercial printing ²	09	47	2.8	0.0	0.2	0.2	0.0	0.1
Iron and steel scrap.....	10	12	14.1	2.6	2.9	0.8	0.8	7.7
Steel mill products ²	10	17	-8.4	-4.7	-2.0	-3.5	-2.5	-1.5
Nonferrous mill shapes ²	10	25	-0.3	-0.9	-0.2	-0.5	-0.8	-0.2
Electrical machinery and equipment.....	11	7	2.0	0.3	0.2	0.0	0.1	0.2
Electronic components and accessories.....	11	78	-0.7	0.3	0.3	-0.1	0.0	0.1
Stage 2 intermediate demand services.....	ID5	9212	3.3	0.4	-0.5	-0.4	0.5	0.3
Rail transportation of freight and mail ²	30	11	1.1	-0.1	0.4	0.7	1.2	0.4
Truck transportation of freight ²	30	12	-8.7	-0.7	0.6	1.6	0.7	-0.6
U.S. Postal Service ²	30	1601	8.0	3.8	0.0	0.0	0.0	0.0
Courier and messenger services, except air.....	30	1602	4.1	0.6	1.1	0.7	0.4	0.0
Air mail and package delivery services, excluding by USPS.....	30	1603	1.9	0.6	2.2	1.3	1.5	-1.0
Pipeline transportation ²	30	17	1.6	3.8	0.1	-0.2	-0.2	-0.1
Airline passenger services.....	30	22	1.9	1.7	-1.9	-3.1	2.5	-0.6
Arrangement of freight and cargo ²	31	31	-22.9	-2.1	-12.8	3.3	2.0	-0.5
Television advertising time sales.....	36	21	-26.2	-1.1	-8.0	-4.2	0.5	6.5
Wireless telecommunication services.....	37	2	1.2	0.1	-0.6	0.2	0.1	0.2
Data processing and related services ²	38	1	2.3	0.3	0.1	-0.2	0.2	0.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	8.7	1.7	0.9	-0.1	-1.9	0.4
Portfolio management ²	40	2	3.1	2.4	2.0	-0.5	-3.0	-1.8
Investment banking ²	40	31	6.9	0.5	1.9	2.9	-0.1	-1.1
Insurance.....	41	11	4.2	-0.2	0.3	0.4	0.2	0.1
Commissions from sales of insurance ²	42	11	0.6	-0.4	0.0	0.0	0.0	0.0
Legal services.....	45	1	6.0	0.7	0.2	0.3	0.9	0.3
Accounting services (partial).....	45	2	6.7	2.6	0.2	1.3	-2.3	-0.1
Management, scientific, and technical consulting services.....	45	4	3.0	-1.6	-2.3	5.1	-3.4	0.2
Advertising agency services ²	45	51	0.5	0.0	-0.2	0.0	0.0	0.0
Staffing services.....	46	3	0.3	-0.1	-0.3	-0.7	0.4	0.2
Security guard services ²	48	1	7.2	0.2	2.6	-0.1	0.8	-0.2
Janitorial services ²	49	1	-0.1	-0.1	0.0	-2.6	-0.1	0.2
Traveler accommodation services.....	53	1	2.4	-0.7	-0.1	2.5	-3.1	4.0
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	5.0	0.9	0.0	1.9	-0.6	0.6
Hardware and building materials and supplies retailing.....	58	D	3.4	6.8	2.3	4.0	0.8	-0.4
Stage 1 intermediate demand.....	ID5	1	-1.5	0.1	1.4	0.3	-0.4	0.1
Stage 1 intermediate demand goods.....	ID5	9111	-5.3	-0.7	2.6	0.3	-0.8	0.1
Prepared animal feeds.....	02	9	-5.7	1.7	0.3	0.6	-1.1	-0.2
Commercial electric power.....	05	42	6.6	-0.2	0.2	0.7	-0.4	2.2
Industrial electric power.....	05	43	9.3	-0.7	0.3	0.2	0.1	2.6
Commercial natural gas.....	05	52	-13.4	3.4	-0.1	-1.8	2.2	5.1
Industrial natural gas.....	05	53	-14.2	9.6	0.3	-2.4	-6.4	8.6
Gasoline.....	05	71	-12.8	0.3	18.7	5.1	-15.5	-4.1
No. 2 diesel fuel.....	05	7303	-29.7	-4.8	39.2	2.6	-11.7	2.6
Industrial chemicals.....	06	1	-9.2	-2.3	-0.1	1.2	1.9	-3.0
Prepared paint ²	06	21	-0.4	-0.5	0.0	-0.2	-0.1	0.0
Plastic construction products ²	07	21	-3.7	-0.1	-0.1	0.2	-0.4	0.1
Recyclable paper ²	09	12	74.7	-0.2	2.2	9.6	11.4	7.9
Paper ²	09	13	-1.2	-0.8	-0.6	0.7	-0.5	-0.4
Converted paper and paperboard products ²	09	15	-1.5	-0.2	-0.5	0.0	-0.3	-0.6
Iron and steel scrap.....	10	12	14.1	2.6	2.9	0.8	0.8	7.7
Steel mill products ²	10	17	-8.4	-4.7	-2.0	-3.5	-2.5	-1.5
Primary nonferrous metals ²	10	22	3.3	2.0	-3.9	1.9	-2.0	0.9
Nonferrous scrap.....	10	23	-8.5	-1.9	0.2	-0.7	-1.0	-0.5
Nonferrous wire and cable ²	10	26	-3.5	1.4	0.5	-1.5	-0.4	0.3
Fabricated structural metal products.....	10	7	0.7	0.4	0.1	0.4	0.8	0.3
General purpose machinery and equipment.....	11	4	5.6	0.3	0.4	0.6	0.6	0.2
Construction sand, gravel, and crushed stone.....	13	21	8.4	-0.3	1.2	0.5	0.3	0.4
Stage 1 intermediate demand services.....	ID5	9112	2.6	0.8	0.4	0.3	0.1	0.2
Truck transportation of freight ²	30	12	-8.7	-0.7	0.6	1.6	0.7	-0.6
Airline passenger services.....	30	22	1.9	1.7	-1.9	-3.1	2.5	-0.6
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	1.8	0.0	-0.4	-0.4	-0.3	-0.2
Business wired telecommunication services ²	37	12	3.4	1.1	1.0	0.2	-0.5	0.2
Wireless telecommunication services.....	37	2	1.2	0.1	-0.6	0.2	0.1	0.2

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [November 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Nov. 2022 to Nov. 2023 ^p	June to July	July to Aug. ^p	Aug. to Sept. ^p	Sept. to Oct. ^p
Bundled wired telecommunications access services ²	37	5	0.9	-0.3	1.0	-2.9	0.2	-0.2
Business loans (partial).....	39	11	12.7	-1.8	-1.7	-2.7	0.9	-0.8
Deposit services (partial) ²	39	2	31.1	-0.6	-2.5	5.2	0.9	5.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	8.7	1.7	0.9	-0.1	-1.9	0.4
Portfolio management ²	40	2	3.1	2.4	2.0	-0.5	-3.0	-1.8
Investment banking ²	40	3	6.9	0.5	1.9	2.9	-0.1	-1.1
Insurance.....	41	11	4.2	-0.2	0.3	0.4	0.2	0.1
Nonresidential real estate rents ²	43	11	3.4	-0.7	2.9	2.0	-3.0	1.3
Architectural and engineering services.....	45	3	3.3	0.3	0.1	0.2	0.9	0.0
Management consulting services.....	45	41	3.0	-1.6	-2.3	5.1	-3.4	0.2
Waste collection.....	50	1	9.8	-0.1	1.1	0.9	-0.5	1.0
Traveler accommodation services.....	53	11	2.4	-0.7	-0.1	2.5	-3.1	4.0
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	5.0	0.9	0.0	1.9	-0.6	0.6
Machinery and equipment parts and supplies wholesaling ²	57	1102	7.2	0.5	2.3	0.0	0.9	0.8
Building materials, paint, and hardware wholesaling.....	57	3	-6.8	-1.6	1.3	1.2	0.3	-1.0
Metals, minerals, and ores wholesaling ²	57	4	6.8	-3.3	-4.4	-3.1	9.8	-1.2
Chemicals and allied products wholesaling ²	57	5	-5.6	8.3	-2.8	-2.4	6.2	-4.6
Paper and plastics products wholesaling ²	57	6	-0.2	-1.8	2.7	-1.0	0.6	-0.5
Hardware and building materials and supplies retailing.....	58	D	3.4	6.8	2.3	4.0	0.8	-0.4
Mining services ²	60	1	2.1	0.0	-0.3	0.8	-0.9	1.5

¹ All indexes are subject to revision for 4 months after their originally scheduled publication to incorporate late reports and corrections by survey respondents. In addition, seasonally adjusted indexes are subject to change for up to 5 years due to the recalculation of seasonal factors published each January.

² Seasonal tests did not indicate the presence of seasonality. Data shown is not seasonally adjusted.

³ Trade indexes measure changes in margins received by wholesalers and retailers.

p Preliminary

"-" Data not available.

NOTE: The term "(partial)" denotes incomplete coverage of the index category.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted
 [November 2023, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	July 2023	Aug. 2023 ^p	Sept. 2023 ^p	Oct. 2023 ^p	Nov. 2023 ^p
Final Demand								
Final demand.....		FD	4	141.407	142.439	143.011	142.378	142.370
Final demand goods.....		FD	41	141.248	143.963	145.155	143.102	143.091
Final demand foods.....		FD	411	149.549	149.009	149.916	149.699	150.637
Finished consumer foods ²	00/82	FD	4111	263.584	263.136	264.559	264.800	266.377
Finished consumer foods, crude.....	00/82	FD	41113	251.728	237.530	229.064	221.927	264.716
Finished consumer foods, processed.....	00/82	FD	41112	263.570	264.435	266.794	267.737	265.380
Government purchased foods.....		FD	4112	153.052	153.424	155.444	156.913	156.684
Foods for export.....		FD	4113	151.483	149.253	150.168	147.633	149.273
Final demand energy.....		FD	412	136.212	150.046	154.596	144.244	142.585
Finished consumer energy goods ²	00/82	FD	4121	215.833	234.682	241.504	223.236	220.327
Government purchased energy.....		FD	4122	139.734	161.679	166.950	159.420	159.346
Energy for export.....		FD	4123	122.884	141.414	146.997	144.410	141.723
Final demand goods less foods and energy.....		FD	413	140.614	140.768	140.989	141.014	141.254
Finished goods less foods and energy ²	00/82	FD	4131	247.597	248.003	248.433	248.503	249.132
Finished consumer goods less foods and energy.....	00/82	FD	41311	275.055	275.541	276.016	276.094	276.817
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	356.871	357.536	357.988	358.796	359.460
Durable consumer goods.....	00/82	FD	413112	191.152	191.461	191.927	191.401	192.128
Private capital equipment.....	00/82	FD	41312	212.663	212.982	213.352	213.412	213.931
Private capital equipment for manufacturing industries.....	00/82	FD	413121	228.346	228.754	229.040	229.138	229.659
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	207.972	208.265	208.659	208.708	209.226
Government purchased goods, excluding foods and energy.....		FD	4132	136.178	136.358	136.584	136.757	136.703
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	145.079	145.265	145.620	145.860	145.515
Government purchased capital equipment.....		FD	41322	122.996	123.167	123.234	123.323	123.619
Goods for export, excluding foods and energy.....		FD	4133	136.772	136.777	136.951	136.902	137.024
Final demand services.....		FD	42	140.303	140.608	140.917	140.922	140.924
Final demand trade services ³		FD	423	153.210	153.352	153.135	152.766	152.471
Trade of finished goods ²		FD	4231	151.489	151.717	151.508	150.881	150.532
Trade of personal consumption goods.....		FD	42311	150.977	151.164	150.744	150.429	150.038
Trade of private capital equipment.....		FD	42312	152.036	152.442	153.169	151.172	151.007
Trade of government purchased goods.....		FD	4232	165.451	165.030	165.093	165.757	166.288
Trade of government purchased goods, excluding capital equipment.....		FD	42321	170.554	169.436	168.869	171.277	171.752
Trade of government purchased capital equipment.....		FD	42322	156.239	156.865	157.868	155.919	156.530
Trade of exports.....		FD	4233	164.741	164.276	163.879	165.567	165.465
Final demand transportation and warehousing services.....		FD	422	149.079	149.049	149.305	150.956	150.231
Transportation of passengers for final demand.....		FD	4221	139.126	136.498	132.342	135.626	134.856
Transportation of private passengers.....		FD	42211	139.120	136.498	132.350	135.628	134.859
Transportation of government passengers.....		FD	42212	138.867	136.270	132.160	135.406	134.645
Transportation of passengers for export.....		FD	42213	139.160	136.507	132.315	135.630	134.852
Transportation and warehousing of goods for final demand.....		FD	4222	152.142	153.126	155.103	156.108	155.405
Transportation and warehousing of finished goods ²		FD	42221	150.157	151.071	153.074	154.059	153.344
Transportation and warehousing of personal consumption goods.....		FD	422211	150.719	151.637	153.617	154.596	153.884
Transportation and warehousing of private capital equipment.....		FD	422212	147.881	148.778	150.871	151.885	151.154
Transportation and warehousing of government purchased goods.....		FD	42222	151.393	152.012	153.780	154.521	153.938
Transportation and warehousing of exports.....		FD	42223	158.014	159.247	161.223	162.335	161.632
Final demand services less trade, transportation, and warehousing.....		FD	421	133.568	133.971	134.497	134.481	134.677
Finished services less trade, transportation, and warehousing ²		FD	4211	133.788	134.185	134.706	134.783	135.030
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	133.116	133.431	133.983	134.022	134.318
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	140.153	141.195	141.475	141.848	141.716
Government purchased services less trade, transportation, and warehousing.....		FD	4212	124.719	125.265	125.572	125.082	125.188
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	125.333	125.869	126.216	125.666	125.861
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	109.936	110.590	110.314	110.714	109.539
Services for export less trade, transportation, and warehousing.....		FD	4213	141.324	141.663	142.511	141.706	141.271
Final demand construction.....		FD	43	174.615	174.791	174.903	174.211	173.906
Construction for private capital investment.....		FD	431	178.756	178.963	179.097	178.326	177.922
Construction for government.....		FD	432	166.901	167.011	167.078	166.549	166.454
Final Demand Special Groupings								
Final demand less exports.....	04/10	FD	49101	139.069	140.166	140.742	140.034	140.038
Final demand less government.....	04/10	FD	49102	139.540	140.430	140.973	140.362	140.351
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ¹	04/10	FD	49103	139.807	140.044	140.297	140.291	140.346
Final demand less foods and energy ⁴	04/10	FD	49104	139.540	139.806	140.089	140.081	140.125
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁴	04/10	FD	49105	139.138	140.265	140.799	140.116	140.058

See footnotes at end of table.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[November 2023, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	July 2023	Aug. 2023 ^P	Sept. 2023 ^P	Oct. 2023 ^P	Nov. 2023 ^P
Final demand less foods ⁴	04/10	FD	49106	138.856	139.960	140.505	139.858	139.797
Final demand less energy.....	04/10	FD	49107	139.855	140.076	140.393	140.373	140.468
Final demand less trade services.....	01/10	FD	49108	137.061	138.274	139.012	138.329	138.383
Final demand less distributive services ⁵	01/10	FD	49109	136.577	137.802	138.488	137.733	137.819
Final demand goods less energy.....	01/10	FD	49111	141.063	141.065	141.433	141.405	141.794
Final demand goods less foods.....	04/10	FD	49112	136.458	139.792	141.017	138.626	138.418
Final demand services less trade services.....	04/10	FD	49113	133.849	134.209	134.705	134.845	134.953
Final demand distributive services ⁵	04/10	FD	49114	149.952	150.220	150.345	150.196	149.844
Final demand goods plus final demand distributive services ⁵	04/10	FD	49115	142.812	144.475	145.207	143.972	143.820
Final demand less foods, energy, and trade services ⁴	08/13	FD	49116	128.187	128.467	128.852	128.930	129.053
Private and government purchased capital equipment.....	08/13	FD	49117	128.158	128.348	128.550	128.594	128.906
Private and government purchased capital investment services.....	08/13	FD	49118	134.181	134.911	135.415	134.947	134.782
Total private and government purchased capital investment.....	08/13	FD	49119	134.594	135.048	135.386	135.086	135.080
Total finished ²	01/10	FD	49201	140.157	141.120	141.676	140.970	140.973
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{2, 4}	12/10	FD	49202	139.284	139.584	139.875	139.840	139.910
Total finished less foods and energy ^{2, 4}	01/10	FD	49203	140.123	140.430	140.724	140.688	140.761
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{2, 4}	12/10	FD	49204	138.344	139.362	139.901	139.152	139.104
Total finished less foods ^{2, 4}	01/10	FD	49205	139.734	140.763	141.306	140.554	140.508
Total finished less energy ²	01/10	FD	49206	140.561	140.837	141.158	141.132	141.250
Finished goods ²	00/82	FD	49207	252.015	257.206	259.574	254.764	254.666
Finished goods less energy ²	00/82	FD	49208	251.038	251.212	251.908	252.024	252.907
Finished goods, excluding foods ^{2, 4}	00/82	FD	49209	248.318	254.980	257.590	251.463	250.924
Finished services ²	01/10	FD	49210	138.651	138.974	139.280	139.248	139.281
Private capital investment services.....	04/10	FD	49211	144.304	145.096	145.642	145.165	144.988
Finished distributive services ^{2, 5}	04/10	FD	49212	148.209	148.514	148.575	148.156	147.769
Finished services less trade services ²	04/10	FD	49213	133.673	134.031	134.527	134.717	134.891
Finished services less distributive services ^{2, 5}	04/10	FD	49214	133.031	133.359	133.774	133.920	134.144
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	142.660	143.172	143.559	143.244	143.229
Finished goods plus finished distributive services ²	04/10	FD	49216	144.201	145.848	146.561	144.970	144.755
Total exports.....	04/10	FD	49301	139.525	140.014	140.493	140.423	140.334
Goods for export.....	00/82	FD	49302	230.906	232.266	233.225	232.411	232.642
Services for export.....	04/10	FD	49303	150.839	150.922	151.305	151.795	151.393
Total government purchases.....	04/10	FD	49401	135.315	137.763	138.562	137.790	137.810
Government purchased goods.....	00/82	FD	49402	225.805	235.212	238.017	235.327	235.198
Government purchased services.....	04/10	FD	49403	133.395	133.711	133.938	133.788	133.905
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	132.098	132.338	132.480	132.161	132.217
Government purchases, defense.....	05/15	FD	49405	121.999	124.602	125.699	125.199	125.088
Government purchases, non-defense.....	05/15	FD	49406	129.954	132.134	132.736	131.896	131.975
Personal consumption.....	01/10	FD	49501	139.503	140.567	141.162	140.368	140.375
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	268.659	275.980	279.221	272.281	271.912
Personal consumption goods less energy.....	00/82	FD	49503	270.638	270.716	271.607	271.757	272.856
Personal consumption goods less foods.....	00/82	FD	49504	268.929	279.506	283.498	273.548	272.354
Personal consumption nondurable goods less foods.....	00/82	FD	49508	302.900	318.063	323.629	309.471	307.415
Personal consumption services.....	04/10	FD	49505	137.258	137.508	137.775	137.813	137.878
Personal consumption less trade services.....	04/10	FD	49506	136.055	137.334	138.178	137.268	137.373
Personal consumption less distributive services ⁵	04/10	FD	49507	135.757	137.050	137.855	136.877	137.012
Personal consumption less foods and energy.....	04/14	FD	49510	128.630	128.863	129.111	129.146	129.236
Personal consumption less foods, energy, and trade services ³	04/14	FD	49511	125.400	125.651	126.090	126.224	126.449
Personal consumption less foods, energy, and distributive services ⁵	04/14	FD	49512	125.363	125.590	125.971	126.072	126.337
Personal consumption goods plus personal consumption distributive services ⁵	08/13	FD	49509	132.417	134.281	134.991	133.271	132.989
Intermediate Demand by Commodity Type								
Processed goods								
Processed goods for intermediate demand.....	00/82	ID6	1	253.324	258.705	260.114	257.423	257.382
Materials and components for manufacturing.....	00/82	ID6	11	232.573	232.130	232.198	231.900	230.982
Materials for manufacturing.....		ID6	111	144.207	143.747	143.758	143.364	142.363
Materials for food manufacturing.....	00/82	ID6	1111	245.224	247.496	249.561	250.258	248.698
Materials for nondurable manufacturing.....	00/82	ID6	1112	260.318	259.949	261.684	263.187	260.740
Materials for durable manufacturing.....	00/82	ID6	1113	284.452	281.566	278.564	274.489	273.213
Components for manufacturing.....	00/82	ID6	112	187.765	187.797	187.919	188.119	188.293
Components for nondurable manufacturing.....		ID6	1121	145.937	145.721	145.116	145.085	145.116
Components for durable manufacturing.....		ID6	1122	132.521	132.554	132.673	132.823	132.950
Materials and components for construction.....	00/82	ID6	12	350.810	351.244	352.453	352.477	353.068
Materials for construction.....		ID6	121	167.275	167.588	168.553	167.970	168.129
Components for construction.....		ID6	122	177.967	178.097	178.381	178.896	179.299
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	232.873	260.398	266.487	254.233	256.669
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	242.416	259.067	263.243	261.170	266.074

See footnotes at end of table.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[November 2023, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	July 2023	Aug. 2023 ^P	Sept. 2023 ^P	Oct. 2023 ^P	Nov. 2023 ^P
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	230.126	261.127	267.829	252.344	254.003
Containers for intermediate demand.....	00/82	ID6	14	308.955	307.316	306.180	305.650	304.651
Supplies for intermediate demand.....	00/82	ID6	15	250.903	251.050	251.383	251.125	250.637
Supplies to manufacturing industries.....	00/82	ID6	151	246.063	245.553	245.489	245.456	245.431
Supplies to nonmanufacturing industries.....	00/82	ID6	152	249.663	249.911	250.303	250.012	249.456
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	238.239	240.005	240.345	236.348	235.594
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	253.156	253.209	253.611	253.800	253.266
Unprocessed goods								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	248.330	253.769	262.150	257.460	253.780
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	223.088	223.337	228.467	221.300	219.176
Unprocessed nonfood materials.....	00/82	ID6	22	255.869	264.859	275.246	272.569	267.914
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	321.209	334.897	352.358	345.430	328.067
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	296.818	309.934	326.820	320.049	303.130
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	348.813	352.826	354.388	355.421	356.838
Unprocessed fuel.....	00/82	ID6	222	120.103	119.784	116.300	121.789	141.382
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	217.423	219.866	212.663	218.692	223.434
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	118.045	117.560	114.187	119.801	140.791
Services								
Services for intermediate demand.....		ID6	3	146.465	146.333	146.575	146.748	147.072
Trade services for intermediate demand ⁵		ID6	33	173.361	172.476	171.520	175.098	174.959
Trade services for manufacturing industries.....	12/12	ID6	331	158.037	156.877	155.449	159.124	158.808
Trade services for nonmanufacturing industries.....	12/12	ID6	332	154.604	154.152	153.830	156.627	156.683
Transportation and warehousing services for intermediate demand.....		ID6	32	155.329	154.420	155.210	156.305	155.989
Transportation of passengers for intermediate demand.....		ID6	321	138.929	136.333	132.224	135.469	134.708
Transportation of passengers for manufacturing industries.....		ID6	3211	139.135	136.483	132.295	135.607	134.830
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	138.966	136.376	132.277	135.514	134.755
Transportation and warehousing of goods for intermediate demand.....		ID6	322	157.185	156.432	157.681	158.578	158.302
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	128.847	129.562	130.724	131.400	131.172
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	140.927	139.865	140.945	141.767	141.520
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	137.673	137.845	138.239	137.516	138.053
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	128.548	128.764	129.051	129.564	129.558
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	137.966	138.136	138.533	137.768	138.324
Construction								
Construction for intermediate demand.....		ID6	4	145.736	145.804	145.826	146.167	146.361
Intermediate Demand by Commodity Type Special Groupings								
Processed materials less foods and feeds.....	00/82	ID6	9111	254.475	260.207	261.586	258.686	258.795
Processed foods and feeds.....	00/82	ID6	9112	242.345	244.280	245.977	245.319	243.828
Processed energy goods.....	00/82	ID6	9113	233.954	261.606	267.724	255.419	257.867
Processed materials less energy.....	00/82	ID6	9118	255.106	254.882	255.103	254.836	254.177
Processed materials less foods and energy.....	00/82	ID6	9115	256.260	255.757	255.786	255.570	255.022
Intermediate distributive services ⁶	04/10	ID6	9116	163.868	163.053	163.067	165.431	165.234
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	144.764	146.679	147.242	146.812	146.743
Unprocessed materials less agricultural products.....	00/82	ID6	9211	258.810	269.139	281.928	279.671	274.998
Unprocessed energy materials ⁷	00/82	ID6	9212	194.324	205.546	219.494	216.217	209.248
Unprocessed materials less energy.....	00/82	ID6	9213	276.069	276.317	279.493	273.896	273.032
Unprocessed nonfood materials less energy ⁸	00/82	ID6	9216	433.864	434.103	431.108	430.546	433.637
Intermediate Demand by Production Flow								
Stage 4 Intermediate Demand								
Stage 4 intermediate demand.....		ID5	4	148.166	148.951	149.284	148.849	149.033
Inputs to stage 4 goods producers.....		ID5	41	145.871	145.772	145.498	145.753	145.790
Goods.....		ID5	411	139.302	139.175	138.996	138.637	138.571
Foods.....		ID5	4111	146.427	147.402	146.157	143.908	144.577
Energy.....		ID5	4112	142.016	148.898	155.745	162.359	162.918
Goods excluding foods and energy.....		ID5	4113	138.294	137.934	137.854	137.719	137.535
Services.....		ID5	412	167.736	167.732	167.137	169.441	169.820
Trade services.....		ID5	4123	179.657	179.696	178.468	181.466	181.998
Transportation and warehousing services.....		ID5	4122	134.661	134.771	135.258	136.868	136.746
Transportation of passengers.....		ID5	41221	139.159	136.506	132.314	135.629	134.851
Transportation and warehousing of goods.....		ID5	41222	142.697	143.356	144.792	146.174	146.172
Services less trade, transportation, and warehousing.....		ID5	4121	130.208	130.048	130.967	131.320	131.390
Inputs to stage 4 services producers.....		ID5	42	145.657	146.629	147.117	146.368	146.701

See footnotes at end of table.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[November 2023, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	July 2023	Aug. 2023 ^P	Sept. 2023 ^P	Oct. 2023 ^P	Nov. 2023 ^P
Goods.....		ID5	421	144.760	146.545	147.417	146.530	147.068
Foods.....		ID5	4211	146.564	147.385	149.267	149.176	147.280
Energy.....		ID5	4212	137.978	143.553	145.038	142.198	145.017
Goods excluding foods and energy.....		ID5	4213	147.316	147.170	147.364	147.381	147.334
Services.....		ID5	422	145.737	146.438	146.798	146.095	146.359
Trade services.....		ID5	4223	162.721	162.090	161.173	163.797	163.523
Transportation and warehousing services.....		ID5	4222	151.251	150.207	150.922	151.743	151.237
Transportation of passengers.....		ID5	42221	138.605	135.978	131.827	135.109	134.339
Transportation and warehousing of goods.....		ID5	42222	154.032	153.251	154.794	155.202	154.738
Services less trade, transportation, and warehousing.....		ID5	4221	142.304	143.324	143.780	142.569	142.969
Construction.....		ID5	423	145.736	145.804	145.826	146.167	146.361
Inputs to stage 4 construction producers.....		ID5	43	161.229	163.202	164.246	163.581	163.471
Goods.....		ID5	431	165.322	168.109	169.354	167.582	167.584
Energy.....		ID5	4312	142.809	169.546	177.094	156.741	153.761
Goods excluding foods and energy.....		ID5	4313	171.375	171.815	172.455	172.512	172.814
Services.....		ID5	432	150.684	150.631	151.174	153.260	152.873
Trade services.....		ID5	4323	169.363	168.863	168.993	172.960	172.215
Transportation and warehousing services.....		ID5	4322	144.596	145.302	147.186	148.408	147.773
Transportation of passengers.....		ID5	43221	145.052	142.292	137.931	141.379	140.570
Transportation and warehousing of goods.....		ID5	43222	145.353	146.147	148.190	149.365	148.731
Services less trade, transportation, and warehousing.....		ID5	4321	131.685	131.720	132.081	132.846	132.867
Stage 3 Intermediate Demand								
Stage 3 intermediate demand.....		ID5	3	144.801	146.452	147.274	146.468	146.296
Inputs to stage 3 goods producers.....		ID5	31	153.880	154.374	155.243	154.456	153.379
Goods.....		ID5	311	149.147	149.963	151.176	149.363	148.227
Foods.....		ID5	3111	161.054	164.671	168.914	164.091	160.222
Energy.....		ID5	3112	130.184	141.101	146.378	147.853	150.362
Goods excluding foods and energy.....		ID5	3113	149.351	148.402	148.115	147.326	147.134
Services.....		ID5	312	161.775	161.001	160.486	163.709	162.930
Trade services.....		ID5	3123	169.104	167.068	165.190	170.318	169.137
Transportation and warehousing services.....		ID5	3122	147.541	148.289	149.665	150.716	150.274
Transportation of passengers.....		ID5	31221	148.163	145.340	140.879	144.406	143.579
Transportation and warehousing of goods.....		ID5	31222	147.299	148.243	149.939	150.843	150.424
Services less trade, transportation, and warehousing.....		ID5	3121	134.388	134.749	134.951	135.755	135.722
Inputs to stage 3 services producers.....		ID5	32	136.946	139.432	140.205	139.374	139.852
Goods.....		ID5	321	118.394	134.013	137.254	131.560	131.373
Foods.....		ID5	3211	155.255	157.000	156.209	156.250	157.197
Energy.....		ID5	3212	113.693	139.349	144.598	135.191	134.888
Goods excluding foods and energy.....		ID5	3213	135.250	135.398	135.578	135.640	135.611
Services.....		ID5	322	141.629	140.687	140.818	141.252	141.909
Trade services.....		ID5	3223	198.791	197.722	197.347	200.199	200.585
Transportation and warehousing services.....		ID5	3222	162.724	160.747	161.669	162.869	162.780
Transportation of passengers.....		ID5	32221	104.496	104.566	104.363	104.360	104.385
Transportation and warehousing of goods.....		ID5	32222	163.226	161.240	162.166	163.373	163.283
Services less trade, transportation, and warehousing.....		ID5	3221	132.902	132.248	132.194	132.274	133.155
Construction.....		ID5	323	145.736	145.804	145.826	146.167	146.361
Inputs to stage 3 construction producers.....		ID5	33	140.293	141.087	142.272	142.280	142.351
Goods.....		ID5	331	134.375	134.361	134.638	133.617	133.787
Goods excluding foods and energy.....		ID5	3313	171.226	171.207	171.561	170.261	170.476
Services.....		ID5	332	165.945	167.809	170.235	171.451	171.414
Trade services.....		ID5	3323	170.684	172.714	175.406	176.681	176.643
Transportation and warehousing services.....		ID5	3322	113.763	114.704	115.245	115.884	116.266
Transportation and warehousing of goods.....		ID5	33222	120.081	121.075	121.646	122.320	122.723
Services less trade, transportation, and warehousing.....		ID5	3321	126.216	126.336	126.230	126.907	126.651
Stage 2 Intermediate Demand								
Stage 2 intermediate demand.....		ID5	2	134.632	135.494	136.937	136.722	136.096
Inputs to stage 2 goods producers.....		ID5	21	122.497	124.333	127.254	126.543	125.184
Goods.....		ID5	211	117.399	120.252	124.398	123.012	121.072
Foods.....		ID5	2111	161.558	159.527	162.040	157.866	159.905
Energy.....		ID5	2112	86.173	91.224	97.477	95.701	92.525
Goods excluding foods and energy.....		ID5	2113	142.280	142.012	142.201	142.401	141.985
Services.....		ID5	212	151.339	150.020	149.230	150.658	151.052
Trade services.....		ID5	2123	171.505	168.062	166.117	169.180	169.854
Transportation and warehousing services.....		ID5	2122	168.126	168.278	168.279	168.852	169.047
Transportation of passengers.....		ID5	21221	139.407	136.878	132.862	136.027	135.286
Transportation and warehousing of goods.....		ID5	21222	169.840	170.122	170.318	170.762	171.003
Services less trade, transportation, and warehousing.....		ID5	2121	136.852	136.300	135.925	136.514	136.840
Construction.....		ID5	213	145.736	145.804	145.826	146.167	146.361

See footnotes at end of table.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[November 2023, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	July 2023	Aug. 2023 ^P	Sept. 2023 ^P	Oct. 2023 ^P	Nov. 2023 ^P
Inputs to stage 2 services producers.....		ID5	22	144.976	144.605	144.172	144.578	144.880
Goods.....		ID5	221	143.600	144.801	145.272	144.784	144.358
Foods.....		ID5	2211	115.218	113.964	113.962	113.117	114.431
Energy.....		ID5	2212	143.090	165.390	168.745	155.769	157.643
Goods excluding foods and energy.....		ID5	2213	144.322	144.168	144.456	144.796	144.195
Services.....		ID5	222	144.707	144.134	143.581	144.097	144.489
Trade services.....		ID5	2223	182.108	184.564	182.637	192.080	190.554
Transportation and warehousing services.....		ID5	2222	146.719	139.978	140.449	142.311	142.246
Transportation of passengers.....		ID5	22221	139.568	136.928	132.754	136.053	135.279
Transportation and warehousing of goods.....		ID5	22222	148.613	141.092	142.418	144.019	144.084
Services less trade, transportation, and warehousing.....		ID5	2221	143.676	143.414	142.847	142.851	143.369
Construction.....		ID5	223	145.736	145.804	145.826	146.167	146.361
Stage 1 Intermediate Demand								
Stage 1 intermediate demand.....		ID5	1	144.042	146.115	146.553	146.016	146.188
Inputs to stage 1 goods producers.....		ID5	11	143.421	144.080	143.690	144.353	143.701
Goods.....		ID5	111	140.958	142.340	142.136	141.896	141.345
Foods.....		ID5	1111	150.439	150.076	146.001	143.689	142.165
Energy.....		ID5	1112	121.262	129.533	132.096	131.553	133.305
Goods excluding foods and energy.....		ID5	1113	147.708	147.762	147.545	147.724	146.768
Services.....		ID5	112	154.159	152.751	151.813	155.100	154.140
Trade services.....		ID5	1123	168.277	165.748	163.799	170.200	168.079
Transportation and warehousing services.....		ID5	1122	158.257	159.384	158.530	158.366	158.483
Transportation of passengers.....		ID5	11221	139.133	136.480	132.289	135.603	134.826
Transportation and warehousing of goods.....		ID5	11222	161.194	163.248	163.233	162.206	162.544
Services less trade, transportation, and warehousing.....		ID5	1121	110.675	110.497	110.926	110.389	110.840
Construction.....		ID5	113	145.736	145.804	145.826	146.167	146.361
Inputs to stage 1 services producers.....		ID5	12	143.519	146.170	146.939	145.640	146.275
Goods.....		ID5	121	141.728	148.567	149.800	147.150	147.900
Foods.....		ID5	1211	131.423	131.905	130.760	127.281	128.002
Energy.....		ID5	1212	142.520	164.456	167.865	158.665	160.945
Goods excluding foods and energy.....		ID5	1213	149.202	149.329	149.619	149.922	149.992
Services.....		ID5	122	143.611	144.489	145.059	144.333	144.917
Trade services.....		ID5	1223	175.103	174.999	174.480	177.289	177.909
Transportation and warehousing services.....		ID5	1222	144.039	143.647	143.127	144.663	144.093
Transportation of passengers.....		ID5	12221	139.050	136.398	132.210	135.522	134.745
Transportation and warehousing of goods.....		ID5	12222	162.067	162.823	164.180	164.945	164.423
Services less trade, transportation, and warehousing.....		ID5	1221	138.784	139.928	140.754	139.367	140.104
Construction.....		ID5	123	145.736	145.804	145.826	146.167	146.361
Inputs to stage 1 construction producers.....		ID5	13	159.612	163.129	164.390	164.011	164.345
Goods.....		ID5	131	160.758	165.105	166.078	164.930	165.551
Energy.....		ID5	1312	117.627	153.146	157.297	144.464	147.007
Goods excluding foods and energy.....		ID5	1313	168.587	169.241	169.846	170.090	170.489
Services.....		ID5	132	157.816	159.319	161.293	162.801	162.433
Trade services.....		ID5	1323	167.395	169.203	171.203	173.024	172.770
Transportation and warehousing services.....		ID5	1322	119.653	120.403	122.176	122.924	122.232
Transportation and warehousing of goods.....		ID5	13222	123.766	124.542	126.375	127.149	126.433
Services less trade, transportation, and warehousing.....		ID5	1321	138.398	138.262	139.645	139.369	139.714
Intermediate Demand by Production Flow Special Groupings								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	143.121	144.142	144.562	143.773	143.900
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	149.071	149.622	149.869	149.771	150.003
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	144.528	144.597	144.618	144.956	145.148
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	143.275	144.164	144.261	142.968	142.544
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	127.441	135.686	138.101	133.234	134.905
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	146.607	146.482	146.629	146.572	146.532
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	134.219	138.588	140.224	137.565	136.732
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	144.092	143.211	143.257	144.149	144.562
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	144.528	144.597	144.618	144.956	145.148
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	143.303	146.508	150.246	145.990	142.584
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	113.964	136.940	142.093	134.482	134.603
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	141.267	140.542	140.348	139.713	139.561
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	114.334	116.886	120.466	119.236	117.540
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	146.756	146.004	145.394	146.127	146.521
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	144.528	144.597	144.618	144.956	145.148
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	161.894	159.862	162.351	158.204	160.244
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	85.008	90.145	96.236	94.372	91.318
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	134.611	134.383	134.584	134.803	134.370
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	128.440	131.735	132.158	131.092	131.164

See footnotes at end of table.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[November 2023, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	July 2023	Aug. 2023 ^p	Sept. 2023 ^p	Oct. 2023 ^p	Nov. 2023 ^p
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	145.600	146.122	146.522	146.633	146.887
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	144.528	144.597	144.618	144.956	145.148
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	141.036	140.714	136.951	134.749	133.368
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	127.106	144.032	147.052	141.283	143.298
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	126.398	126.564	126.654	126.845	126.546

¹ All indexes are subject to revision for 4 months after their originally scheduled publication to incorporate late reports and corrections by survey respondents. In addition, seasonally adjusted indexes are subject to change for up to 5 years due to the recalculation of seasonal factors published each January.

² PPI defines Total finished as including only the personal consumption and private capital investment portions of final demand.

³ Trade indexes measure changes in margins received by wholesalers and retailers.

⁴ The PPI definition of foods does not include food and beverages for immediate consumption. PPI defines food and beverages for immediate consumption as the service of preparing meals, snacks, and beverages to customer order for immediate on-premises and off-premises consumption.

⁵ Distributive services include transportation, warehousing, and trade of goods.

⁶ Includes intermediate trade, transportation, and warehousing services.

⁷ Includes crude petroleum.

⁸ Excludes crude petroleum.

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"/" Data not available.